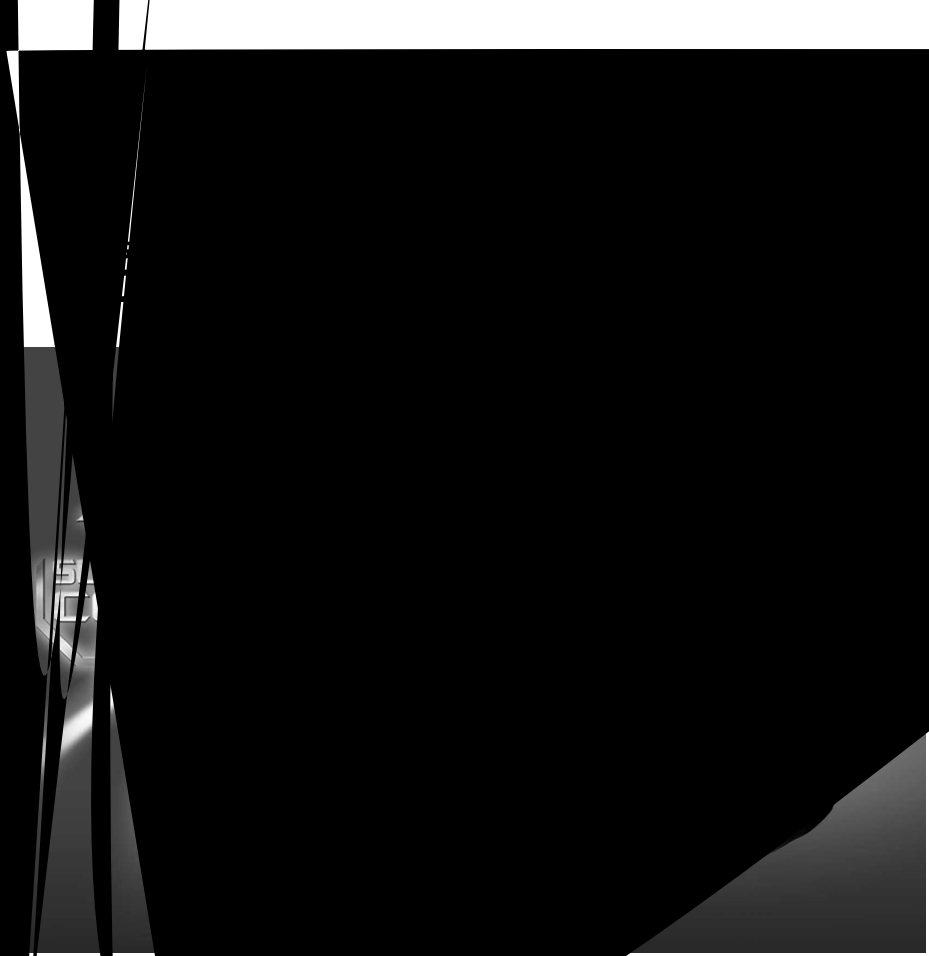

OWN

This ... how to use your FUJIFILM
DIG... CAMERA FinePix S20 Pro correctly.
Plea... ow the instructions carefully.

Designed for
Microsoft® Windows® XP

Exif Print

Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For customers in the U.S.A.

Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void the user's authority to operate the equipment.

Notes on the Grant:
To comply with Part 15 of the FCC rules, this product must be used with a Fujifilm-specified ferrite-core A/V cable, USB cable and DC supply cord.

For customers in Canada

CAUTION

This Class B digital apparatus complies with Canadian ICES-003.

Please read the Safety Notes (➡P.118) and make sure you understand them before using the camera.

IMPORTANT

Be sure to read this page before using the Software.

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   (c) "Documentation" means the operation manuals of Software and other related written materials which are provided to you together with Media.
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EC Declaration of Conformity

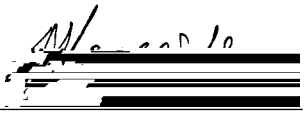
We
Name: Fuji Photo Film (Europe) G.m.b.H.
Address: Heesenstrasse 31
40549 Dusseldorf, Germany

declare that the product
Product Name: FUJIFILM DIGITAL CAMERA FinePix S20 Pro
Manufacture's Name: Fuji Photo Film Co., Ltd.
Manufacture's Address: 26-30, Nishiazabu 2-chome, Minato-ku,
Tokyo 106-8620, Japan

is in conformity with the following Standards
Safety: EN60065
EMC: EN55022: 1998 Classe B
EN55024: 1998
EN61000-3-2: 1995 + A1:1998 + A2:1998

following the provision of the EMC Directive (89/336/EEC, 92/31/EEC and 93/68/EEC) and Low Voltage Directive (73/23/EEC).

CE



Dusseldorf, Germany	February 1, 2004	
Place	Date	Signature/Managing Director

Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA

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■ Test Shots Prior to Photography

For particularly important photographs (such as weddings and overseas trips), always take a test photograph and view the image to make sure that the camera is functioning normally.

- Fuji Photo Film Co., Ltd. cannot accept liability for any incidental losses (such as the costs of photography or the loss of income from photography) incurred as a result of faults with this product.

■ Notes on Copyright

Images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner, unless intended only for personal use. Note that some restrictions apply to the photographing of stage performances, entertainments and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of memory cards (**xD-Picture Card** or Microdrive) containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

■ Liquid Crystal

If the LCD monitor is damaged, take particular care with the liquid crystal in the monitor. If any of the following situations arise, take the urgent action indicated.

- If liquid crystal comes in contact with your skin
  Wipe the area with a cloth and then wash thoroughly with soap and running water.
- If liquid crystal gets into your eye
  Flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed
  Flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Then seek medical assistance.

■ Notes on Electrical Interference

If the camera is to be used in hospitals or aircrafts, please note that this camera may cause interference to other equipment in the hospital or aircraft. For details, please check with the applicable regulations.

■ Handling Your Digital Camera

This camera contains precision electronic components. To ensure that images are recorded correctly, do not subject the camera to impact or shock while an image is being recorded.

■ Trademark Information

- xD-Picture Card and **xD-Picture Card™** are trademarks of Fuji Photo Film Co., Ltd.
- IBM PC/AT is a registered trademark of International Business Machines Corp. of the U.S.A.
- Macintosh, Power Macintosh, iMac, PowerBook, iBook and Mac OS are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.
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- Microsoft, Windows, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries. Windows is an abbreviated term referring to the Microsoft® Windows® Operating System.

✻ The “Designed for Microsoft® Windows® XP” logo refers to the camera and the driver only.

- Microdrive is a trademark of the International Business Machines Corporation of the U.S.
- Other company or product names are trademarks or registered trademarks of the respective companies.

■ Explanation of Color Television System

NTSC: National Television System Committee, color television telecasting specifications adopted mainly in the U.S.A., Canada and Japan.

PAL: Phase Alternation by Line, a color television system adopted mainly by European countries and China.

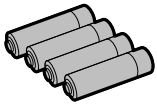
■ Exif Print (Exif ver. 2.2)

Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.

Accessories included

- **16 MB, xD-Picture Card™ (1)**
  Included with: Anti-static case (1)

- **AA-size alkaline batteries (4)**



- **Shoulder Strap (1)**

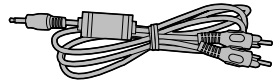
- **Protective cover (2)**

- **Metal strap clip (2)**

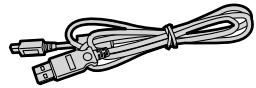
- **Clip attaching tool (1)**

- **Lens cap (1)**
- **Lens cap holder (1)**

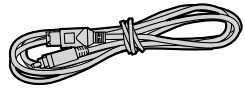
- **A/V (audio-visual) cable (1)**
  (plug (2.5 mm dia.) to pin-plug cable × 2)



- **USB cable (mini-B) (1)**



- **IEEE1394 4-pin to 6-pin cable (1)**



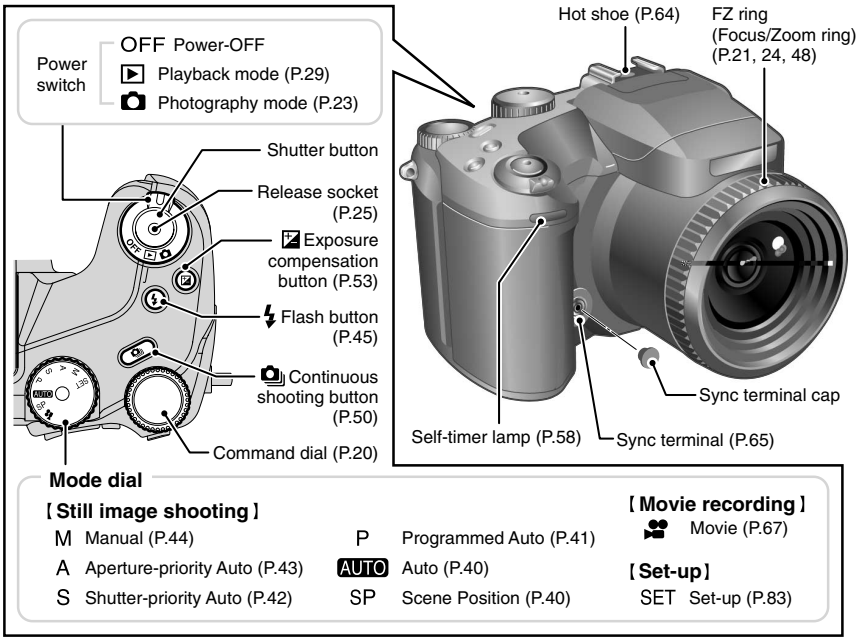
- **Sync terminal cap (1)**
  (Attached to camera)

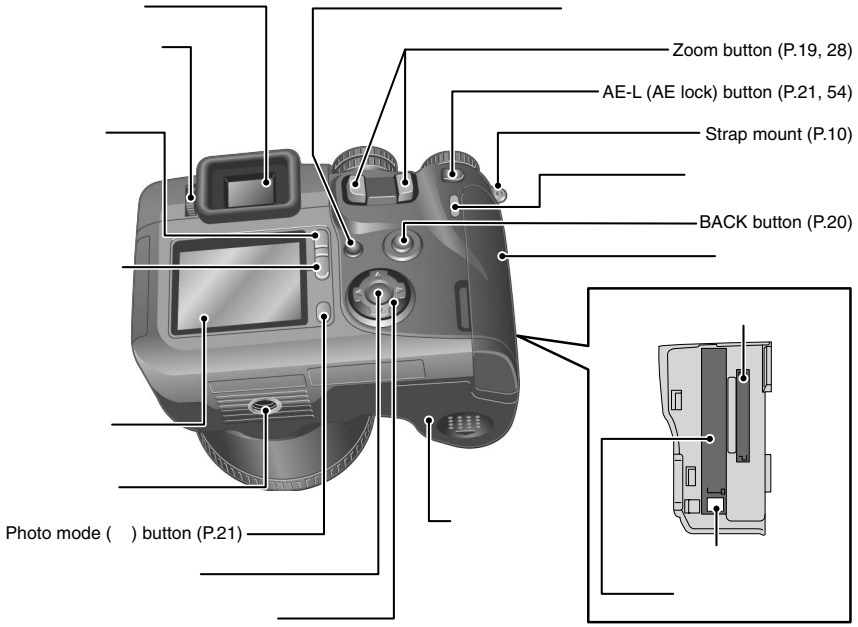
- **CD-ROM (1)**
  Software for FinePix SX

- **Owner's Manual (this manual) (1)**

Camera parts and features

✻ Refer to the pages in parentheses for information on using the camera parts or feature.

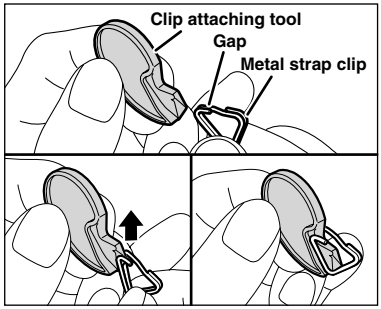




ATTACHING THE LENS CAP AND STRAP

When attaching the strap to the camera, attach the metal strap clip to the camera before threading the strap through the clip. This description explains how to attach the strap using the clip attaching tool provided to make attaching the metal strap clip easier.
(Numbers **1** to **8** refer to the illustrations.)

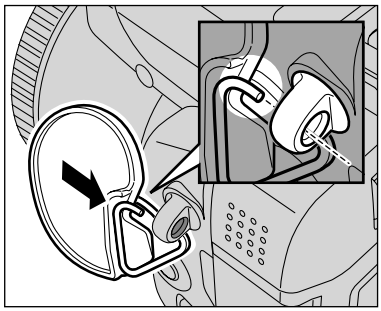
1



Checking that the metal strap clip is facing the right way, slide the clip fully into the clip attaching tool and open up the gap in the strap clip.

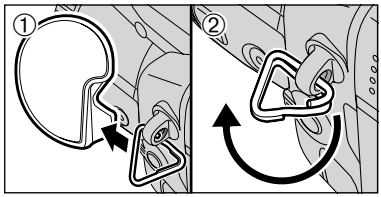
Keep the clip attaching tool in a safe place as you will also need it for removing the metal strap clip from the camera.

2



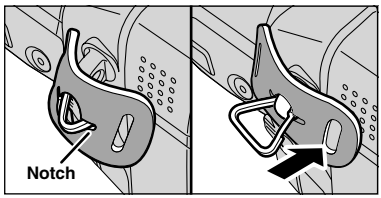
Keeping the metal strap clip open, hook the open metal strap clip through the strap mount on the camera until it is secure.

3



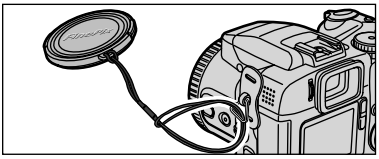
① Once the clip is securely hooked through the strap mount, hold the clip in place as you remove the clip attaching tool.
② Turn the metal strap clip around once until it clicks closed and is fully threaded onto the strap mount.

4

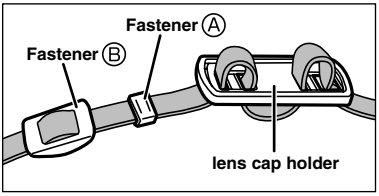


Face the black side of the cover towards the camera and attach the strap by threading the strap through the strap clip, starting from the notched side.
Repeat steps **1** to **4** to attach the other end of the strap.

5

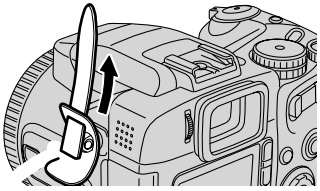


6

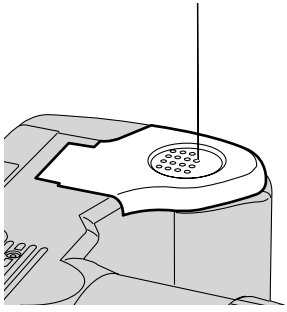


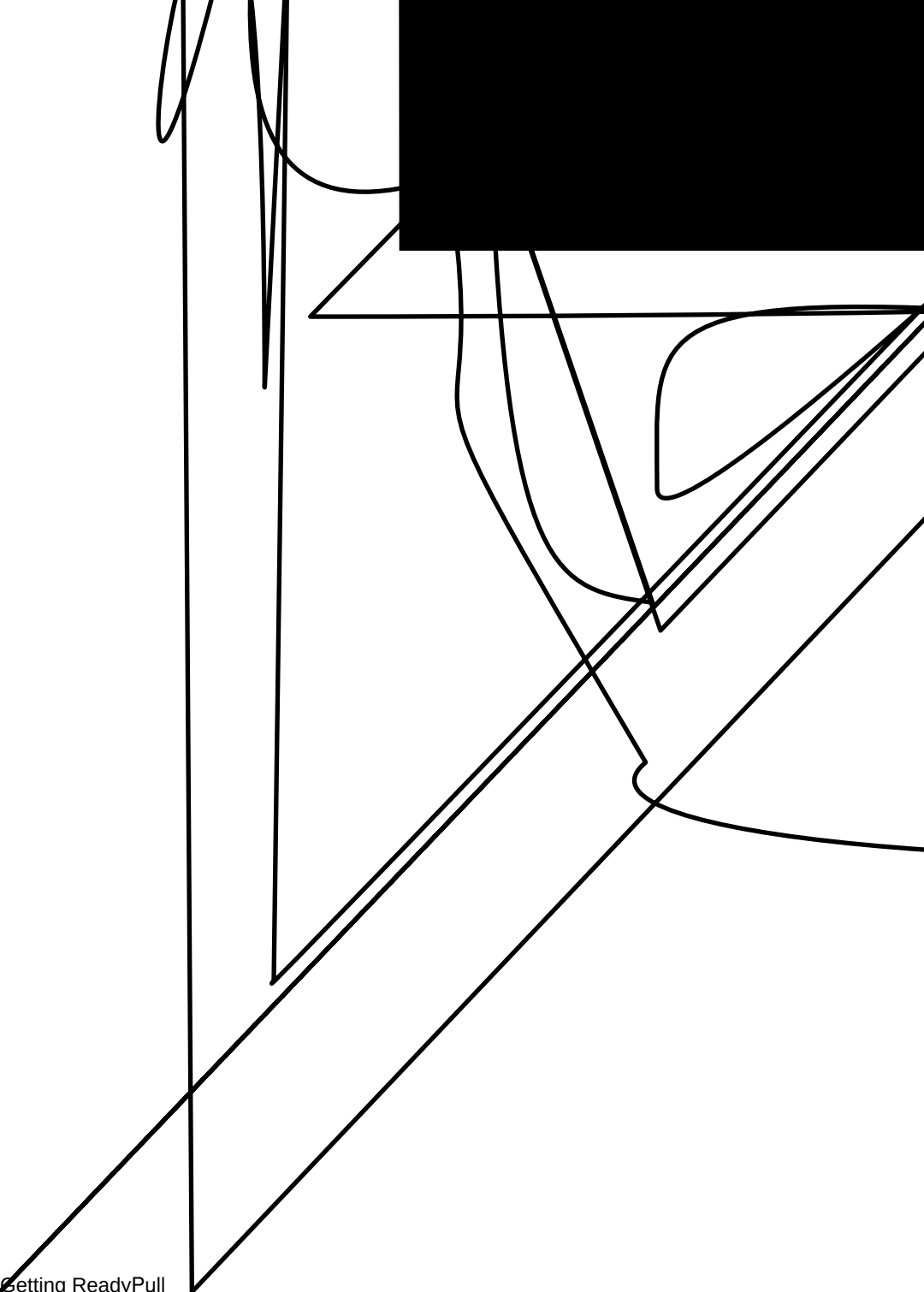
Remove fasteners Ⓐ and Ⓑ from only one side of the shoulder strap. Then pass the shoulder strap through the lens cap holder and then back through fasteners Ⓐ and Ⓑ.

7



1

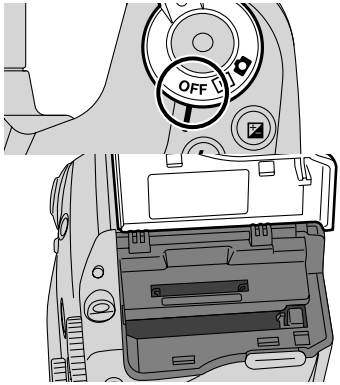



Getting ReadyPull

Use either **xD-Picture Card** or Microdrive as recording media in the FinePix S20 Pro.

- If an **xD-Picture Card** and a Microdrive are inserted at the same time, images will be recorded onto the media selected as the "MEDIA" (➡P.83).
- Data cannot be copied between the two media types on the FinePix S20 Pro.

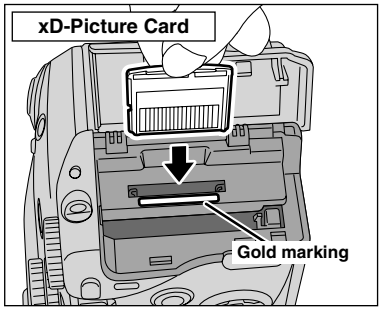
1



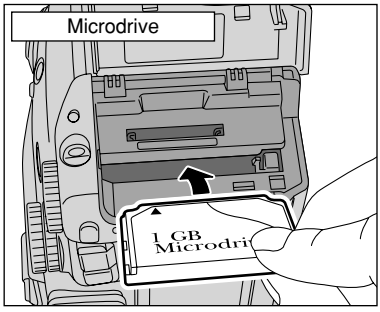
Set the Power switch to "OFF", check that the indicator lamp is off and then open the slot cover.

If opening the slot cover while the camera is still on, the camera will turn off.

2



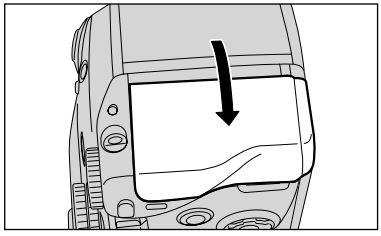
Align the gold marking on the xD-Picture Card slot with the gold contact area on the **xD-Picture Card** and push the card firmly all the way into the slot.



Push the Microdrive firmly all the way into the Microdrive slot.

- Insert only the appropriate media types into the **xD-Picture Card** and Microdrive slots. Inserting the incorrect media will damage the camera or media.
- If the media is oriented incorrectly, it will not go all the way into the slot. Do not apply excessive force when inserting an **xD-Picture Card** or Microdrive.
- If the media is not fully inserted into the slot, the "CARD ERROR" message appears.

3

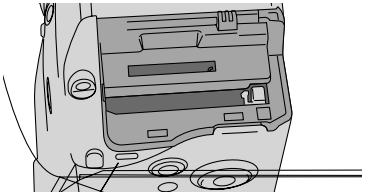


Close the slot cover.

◆ How to replace the **xD-Picture Card** ◆

Push the **xD-Picture Card** into the slot and then slowly remove your finger. The lock is released and the **xD-Picture Card** is pushed out.

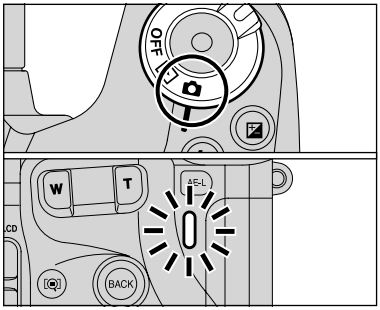
◆ How to replace the Microdrive ◆



Open the slot cover, press the Microdrive eject button and remove the Microdrive.

- When storing Microdrives, always use the special protective case.

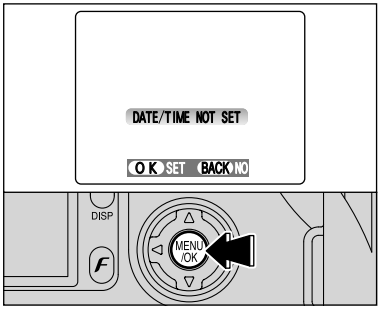
1



To turn the camera on, set the Power switch to "📷" or "▶". When turning the camera on, the indicator lamp lights green.
To turn the camera off, set the Power switch to "OFF".

The lens moves when the camera is in "📷" mode. Take care not to obstruct the lens as it is a precision component.
Obstructing the lens will cause damage and the "ZOOM ERROR" or "FOCUS ERROR" message will appear. Take care also not to get fingerprints on the camera lens as this will result in impaired image quality in your shots.

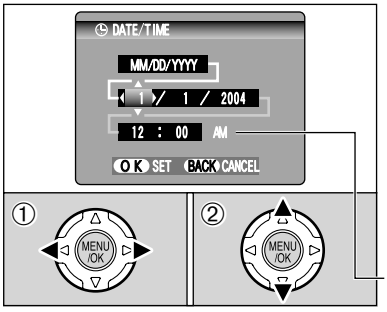
2



After purchasing the camera, first time when you turn camera on, the date and time are cleared. Press the "MENU/OK" button to set the date and time.

- If the message (see figure at left) does not appear, refer to "Correcting the date and time" (➡P.17) and check and correct the date and time settings.
- The message is also shown when the camera battery has been removed and the camera has been left in storage for a long period of time.
- To set the date and time later, press the "BACK" button.
- If you do not set the date and time, this message will appear each time you turn the camera on.

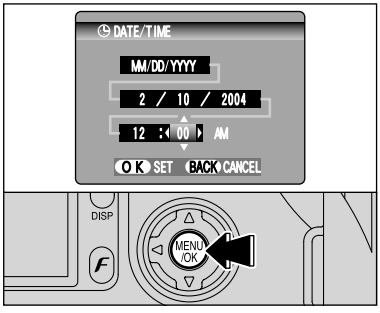
3



① Press "◀" or "▶" to select Year, Month, Day, Hour or Minute.
② Press "▲" or "▼" to correct the setting.

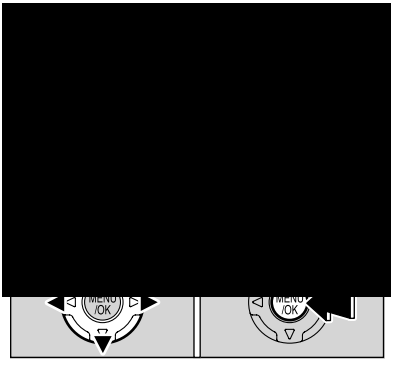
- Holding down "▲" or "▼" changes the numbers continuously.
- When the time displayed passes "12:00", the AM/PM setting changes.

4



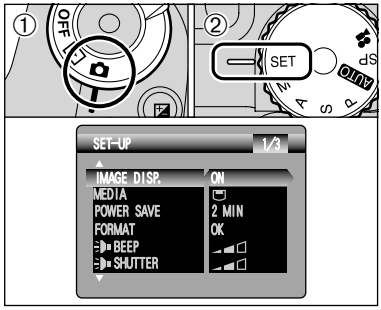
Once you have set the date and time, press the "MENU/OK" button. Pressing the "MENU/OK" button changes the camera to Photography or Playback mode.

- At the time of purchase and after leaving the camera for a long period with the batteries removed, settings such as the date and time are cleared. Once the AC power adapter has been connected or the batteries have been fitted for 2 hours or more, the camera settings will be retained for roughly 24 hours even if both sources of camera power are removed.


MENU
/OK
MENU
/OK

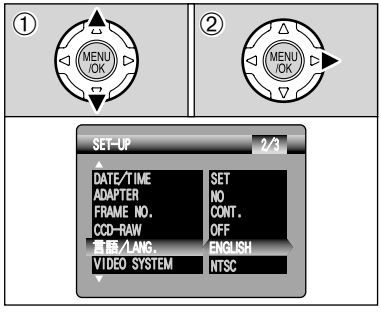
SELECTING THE LANGUAGE

1



① Set Power switch to "📷".
② Set the Mode dial to "SET" to display the SET-UP menu.

2

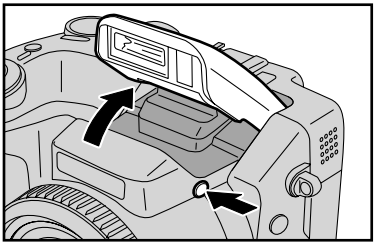


① The "SET-UP" screen appears. Press "▲" or "▼" to select "言語/LANG.".
② Press "▶" to select "ENGLISH", "FRANCAIS", "DEUTSCH", "ESPAÑOL", "中文" or "日本語". Press "▶" to cycle through the language settings.

The screens in this manual are shown in English.
See P.83 for more information on the "SET" SET-UP menu.

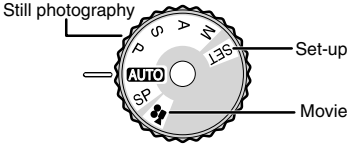
●Flash release

To use the flash, press the Flash pop-up button to release the flash.



●Photography mode selector

Turn the Mode dial to change Photography mode.



Still image shooting

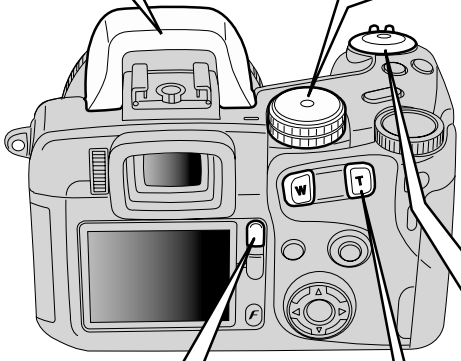
- AUTO Auto
- SP Scene Position
- P Program Auto
- S Shutter-priority Auto
- A Aperture-priority Auto
- M Manual

Movie recording

- Movie

Set-up

- SET Set-up

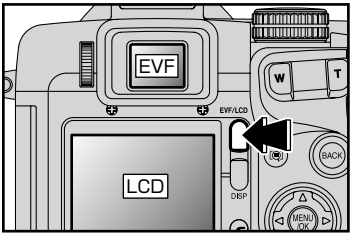


●ON/OFF and Photography/Playback mode selector switch

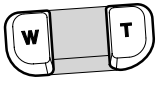
Use the Power switch to select the mode.

●Changing between the viewfinder (EVF) and the monitor (LCD)

Pressing the "EVF/LCD" button toggles between the viewfinder and the LCD monitor. Use whichever mode is best suited to your shot.

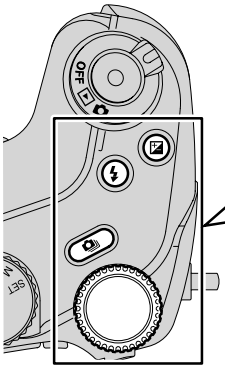


●Using the Zoom



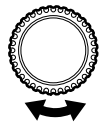
Photography: Press "**T**" to zoom in (telephoto).
Press "**W**" to zoom out (wide-angle).

Playback: Press "**T**" to enlarge the image.
Press "**W**" to revert to normal display.



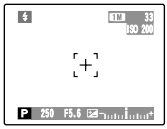
●Command dial

In Photography mode, turn the Command dial to select program shift and specify settings such as the shutter speed and aperture.



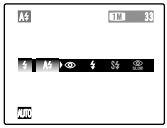
: Exposure compensation

Hold down the "⊡" button and turn the Command dial to select the setting.



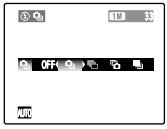
: Flash

Release the pop-up flash, hold down the "ϟ" button and turn the Command dial to select the setting.



: Continuous shooting

Hold down the "⊡" button and turn the Command dial to select the setting.



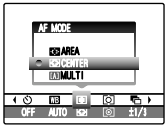
●Using the menus

①Display the menu.

Press the "MENU/OK" button.

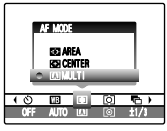
②Select a menu option.

Press the left or right arrow on the 4-direction button.



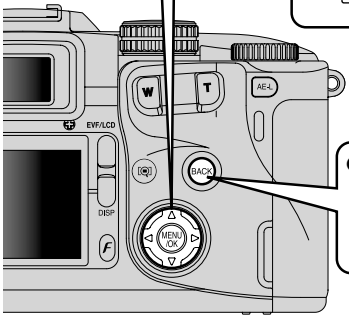
③Select a setting.

Press the up or down arrow on the 4-direction button.



④Confirm the setting.

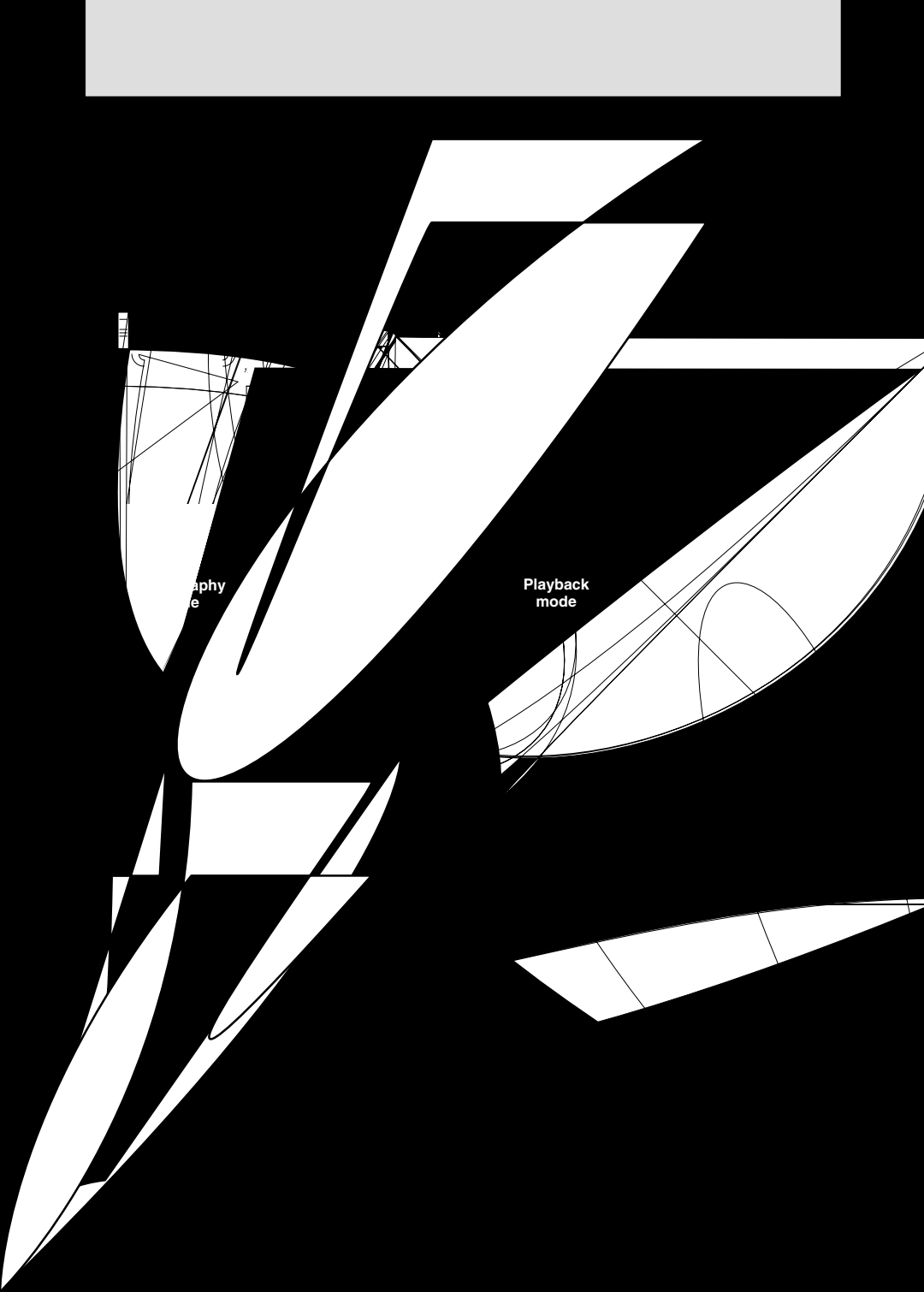
Press the "MENU/OK" button.



●BACK button

Press this button when you want to cancel a procedure mid-way.

Up, down, left and right are indicated by black triangles in the Owner's Manual. Up or down is shown as "▲" or "▼", and left or right is shown as "◀" or "▶".

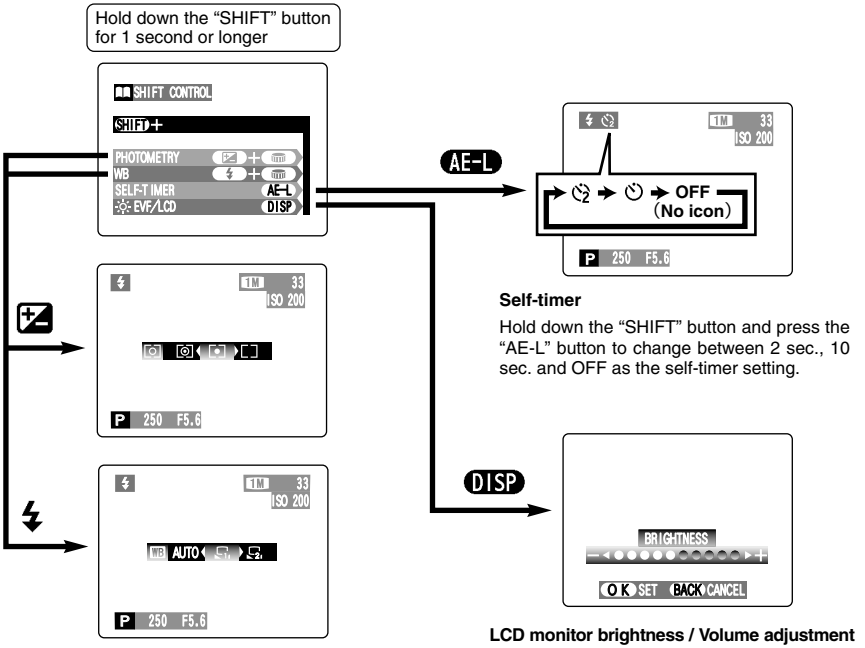

aphy
e
Playback
mode

●SHIFT button

Holding down the “SHIFT” button for 1 second or longer displays the “SHIFT CONTROL” guide.

By pressing one of the displayed button combinations, you can quickly and easily access the corresponding setting.

The functions you can access vary depending on the current mode. The example below shows the procedure for Photography mode.



Self-timer

Hold down the “SHIFT” button and press the “AE-L” button to change between 2 sec., 10 sec. and OFF as the self-timer setting.

Photometry / White balance

Holding down the “SHIFT” button and pressing a button changes the setting on the Command dial. Release the button to confirm the setting.

LCD monitor brightness / Volume adjustment

Holding down the “SHIFT” button and pressing the “DISP” button displays the menu.Press “▲” or “▼” to select an option and press “◄” or “►” to change the setting. Then press the “MENU/OK” button to confirm the setting.

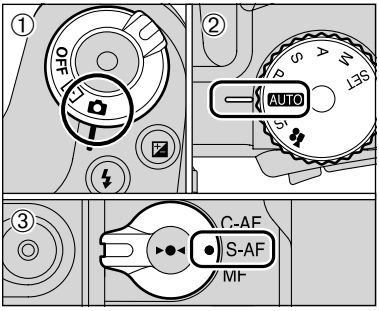
Note that the volume can only be adjusted in Playback mode.

Refer to the page listed in the table below for details of the respective settings.

Self-timer	P.58
Photometry	P.62
White balance	P.59

TAKING PICTURES (AUTO MODE)

1

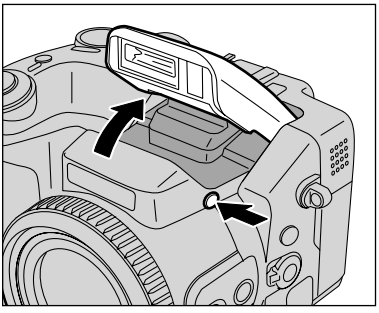


① Set the Power switch to "📷".
② Set the Mode dial to "AUTO".
③ Set the Focus mode selector switch to "S-AF".

● **Focal range**
Wide-angle: Approx. 50 cm (1.6 ft.) to infinity
Telephoto: Approx. 90 cm (3.0 ft.) to infinity

- For close-up shots, use the Macro setting (➡P.55).
- When the "CARD ERROR", "CARD NOT INITIALIZED", "CARD FULL" or "NO CARD" message appears, see P.111.

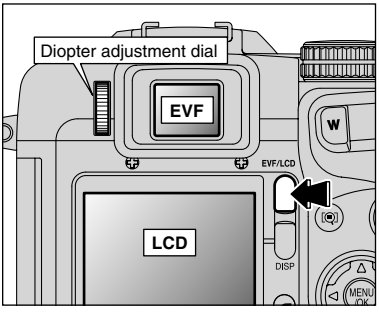
2



Press the Flash pop-up button to pop up the flash.

- When the flash is popped up, the image may disappear and the screen may go dark briefly due to flash charging. At the same time, the indicator lamp blinks orange.
- When using the flash in dusty conditions or when it is snowing, white dots may appear in the image. The flash will reflect off the dust particles or snowflakes. Try taking the shot using Suppressed flash mode.

3



Each time you press the "EVF/LCD" button, the display switches between the viewfinder (EVF) and the monitor (LCD). If the AF frame in the viewfinder (EVF) is difficult to see, adjust the viewfinder using the Diopter adjustment dial.

The EVF/LCD selection is retained even when the camera is turned off or the Mode dial setting is changed.

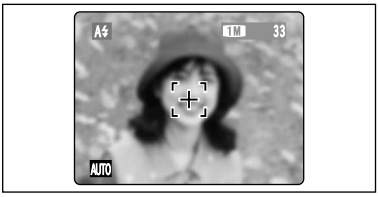
6

250

uses briefly when it changes between optical zoom and digital zoom (➡P.28). Press the same Zoom button

again to change Zoom modes.

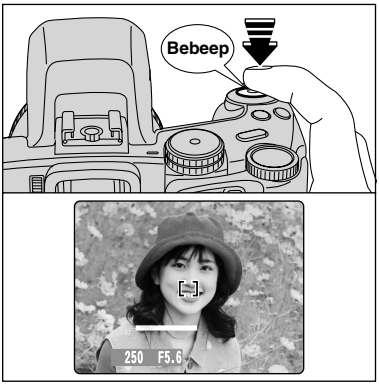
7



Frame the shot so that the subject fills the entire AF (Auto Focus) frame.

- If the subject is not in the AF frame, use AF/AE lock to take the picture (➡P.27).

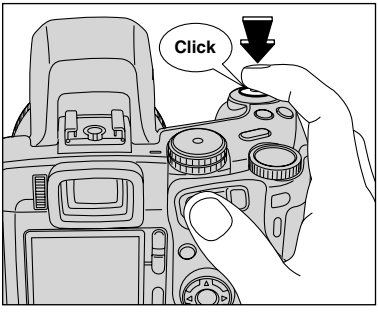
8



Press the Shutter button down halfway. When a short double-beep is heard, the camera focuses on your subject. At that point, the AF frame on the screen becomes smaller and the camera sets the shutter speed and aperture (the indicator lamp (green) stops blinking and remains lit).

- The image shown on the screen before taking the picture may differ in its brightness, color, etc. from the image actually recorded. Playback the recorded image to check it (➡P.29).
- If the camera does not emit a short double-beep and "**!AF**" appears on the screen, the camera cannot focus.
- Pressing the Shutter button down halfway, the image on the screen freezes temporarily. However, this image is not the recorded image.
- If "**!AF**" appears on the screen (e.g. the shot is too dark for the camera to focus), try standing about 2 m (6.6 ft.) from the subject to take the picture.

9



Press the Shutter button down fully without releasing it. When a clicking noise is heard, the camera records the image.

- There is a slight delay between the Shutter button being pressed and the picture being taken. Playback the shot to check the image.
- When pressing the Shutter button down fully in one motion, the picture is taken without the AF frame changing.
- Taking the picture, the indicator lamp lights orange (shooting disabled). The indicator lamp then changes to green to indicate that the next picture can be taken.
- The indicator lamp blinks orange while the flash is charging. The monitor may go dark briefly. This is normal.
- See P.111-112 for information on the warning displays.

◆ Support for a cable release ◆

A mechanical cable release can be used with this camera.
Camera shake can be prevented by using a tripod (sold separately) and cable release (sold separately).

Compatible cable releases:
ISO 6053:1979-compliant cable releases

- Do not apply excessive force to a cable release that is attached to the camera, as this could damage the camera.

INDICATOR LAMP DISPLAY

Display	Status
Lit green	Ready to shoot.
Blinking green	AF/AE in progress, camera shake warning or AF warning (Ready to shoot).
Blinking green and orange alternately	Recording to media (Ready to shoot).
Lit orange	Recording to media (Not ready).
Blinking orange	Charging the flash (flash will not fire).
Flashing green (1-second intervals)	Camera in Power save mode (➥P.86).
Blinking red	• Media Warnings No card inserted, card not formatted, incorrect format, card full, media error. • Lens operation error.

✻ Detailed warning messages appear on the screen (➥P.111-112).

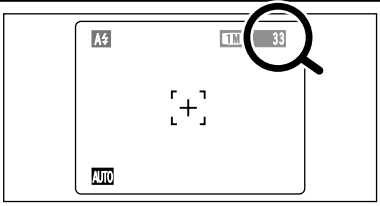
◆ Subjects not suitable for autofocus ◆

Though the FinePix S20 Pro uses an autofocus mechanism, it may have trouble focusing with the following subjects and situations:

- Very shiny subjects such as a mirror or car body
- Subjects photographed through glass
- Subjects that do not reflect well, such as hair or fur
- Subjects with no substance, such as smoke or flames
- When the subject is dark
- Subjects moving at high speed
- When there is very little contrast between the subject and the background (such as white walls or subjects dressed in the same color as the background)
- When there is a high-contrast subject other than the main subject at or near the center of the image and that subject is closer to or further from the camera than the main subject (as when taking a picture of someone against a background with contrasting colors)

For subjects of this type, use AF/AE lock (➥P.27).

NUMBER OF AVAILABLE FRAMES



The number of available frames appears on the screen.

See P.32 for information on changing the quality setting.
The default quality "F" set at shipment is 1M.

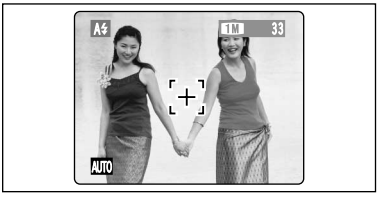
■ Standard number of frames per media

This is the standard number shown for a new media formatted on the camera. The larger the capacity of the media, the greater the difference between the standard number and the actual number of frames displayed.
Also, because the amount of data recorded varies depending on the subject, the number of frames may not decrease or may decrease by 2 when a frame is taken. Consequently, the actual number of frames may be more or less than what is displayed.

Quality	6M F	6M N	3M	2M	1M	RAW
Number of recorded pixels	2832 × 2128		2048 × 1536	1600 × 1200	1280 × 960	2832 × 2128
DPC-16 (16 MB)	5	10	19	25	33	1
DPC-32 (32 MB)	10	21	40	50	68	2
DPC-64 (64 MB)	21	42	81	101	137	4
DPC-128 (128 MB)	42	85	162	204	275	9
DPC-256 (256 MB)	86	171	325	409	550	19
DPC-512 (512 MB)	172	343	651	818	1101	39
Microdrive 340 MB	117	234	445	559	752	26
Microdrive 1 GB	353	698	1313	1642	2190	80

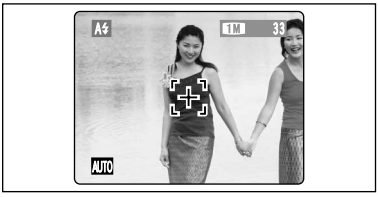
USING AF/AE LOCK

1



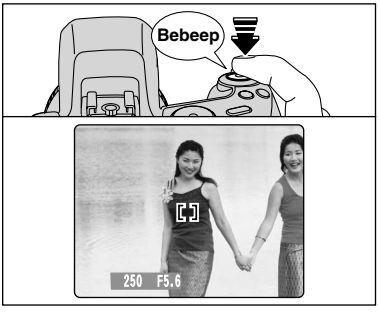
In a shot like the image on the left, the subjects are not in the AF frame. If the picture is taken at this point, the subjects will not be in focus.

2



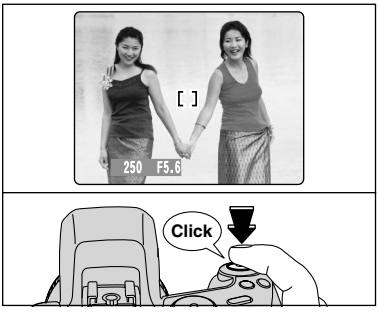
Move the camera slightly so that one of the subjects is in the AF frame.

3



Press the Shutter button down halfway. When a short double-beep is heard, the camera focuses on your subject. At that point, the AF frame on the screen becomes smaller and the camera sets the shutter speed and aperture. (The indicator lamp (green) changes from blinking to lit.)

4



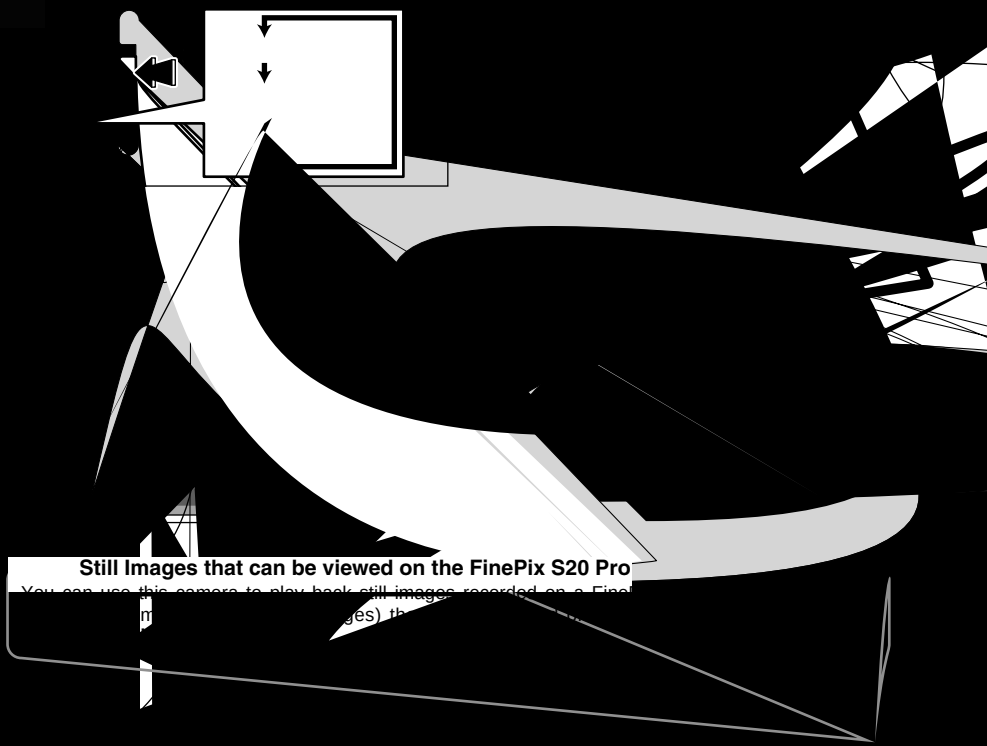
Continue to hold the Shutter button down halfway (AF/AE lock). Move the camera back to the original image and then fully press down on the Shutter button.

- You can reapply the AF/AE lock as many times as you like before releasing the shutter.
- The AF/AE lock operates in all Photography modes and can be used to ensure excellent results.

◆ AF/AE lock ◆

On the FinePix S20 Pro, when you press the Shutter button down half way, the focus and exposure settings are locked (AF/AE lock). If you want to focus on a subject that is off to one side of the image or set the exposure before you compose the final shot, lock the AF and AE settings then compose and take your picture.

- **When you cannot focus and AF/AE lock does not give the correct exposure**
  Position the AF frame over the main subject and apply the AE lock (➡P.54). Then position the AF frame over another subject at roughly the same distance, press the Shutter button down halfway, recompose the shot and then take the picture.

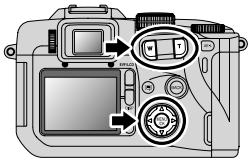


Still Images that can be viewed on the FinePix S20 Pro

You can use this camera to play back still images recorded on a Fine
m ges) th

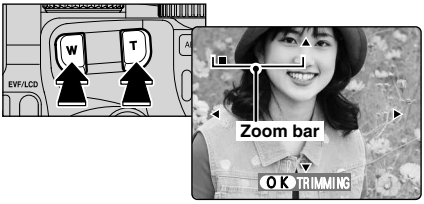
VIEWING THE IMAGES (PLAYBACK)

Single-frame playback



Press the "BACK" button to cancel playback zoom.

Playback zoom

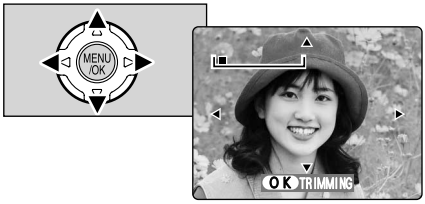


Pressing the Zoom button during single-frame playback zooms (enlarges) the still image. At that point, a zoom bar appears.

- **Zoom scales**
  - 6M F, N 2832 × 2128 pixel images: Max. 18×
  - 3M 2048 × 1536 pixel images: Max. 13×
  - 2M 1600 × 1200 pixel images: Max. 10×
  - 1M 1280 × 960 pixel images: Max. 8×

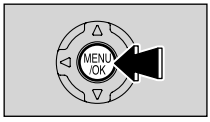
Do not use multi-frame playback during playback zoom.

Panning



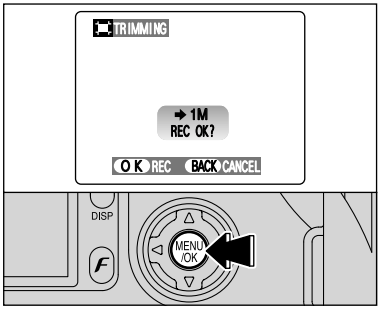
Pressing "▲", "▼", "◀" or "▶" to display another part of the image.

The size of the saved image varies depending on the zoom scale. If the saved image size is less than "1M", "OK TRIMMING" disappears and cannot be saved the image trimmed. For CCD-RAW files, "OK TRIMMING" is not displayed and trimmed images cannot be saved.



Press the "MENU/OK" button to crop the image.

Trimming



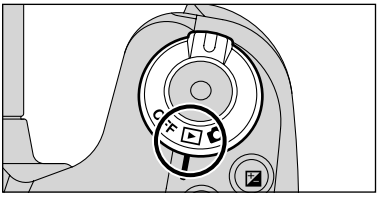
Check the size of the saved image and press the "MENU/OK" button. The cropped image is added as a separate file in the final frame.

■ Image Sizes

3M	Best for A5 to A4 size prints
2M	Best for A6 to A5 size prints
1M	Best for A6 size prints

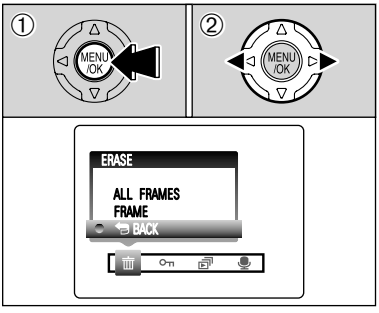
ERASING IMAGES (ERASE FRAME)

1



Set the Power switch to "▶".

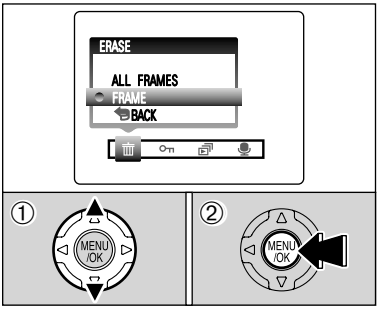
2



① Press the "MENU/OK" button during playback to display the menu.
② Press "◀" or "▶" to select "🗑" ERASE.

Note that erased images cannot be recovered. Please copy important frames (files) to avoid loosing them to your computer or another media.

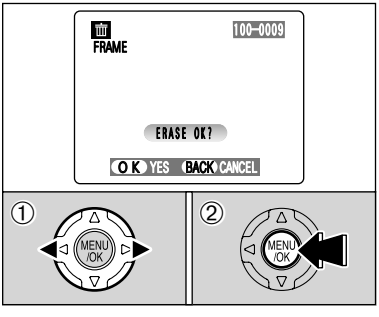
3



① Press "▲" or "▼" to select "FRAME".
② Press the "MENU/OK" button to confirm the selection.
See P.71 for information on "ALL FRAMES".

- Press "▲" or "▼" to select "BACK" and press "MENU/OK" button to return to single-frame playback.
- Press the "BACK" button to cancel erasing single frame.

4



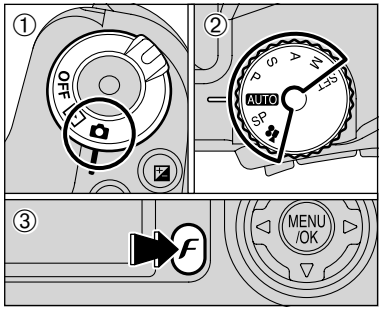
① Press "◀" or "▶" to select a frame (file) to be erased.
② Press the "MENU/OK" button to erase a displayed frame (file).
To erase another frame (file), repeat steps ① and ②.

- Pressing the "MENU/OK" button repeatedly erases consecutive frame (files). Take care not to erase a frame (files) by mistake.

F PHOTO MODE STILL PHOTOGRAPHY/MOVIE

QUALITY MODE (NUMBER OF RECORDED PIXELS)

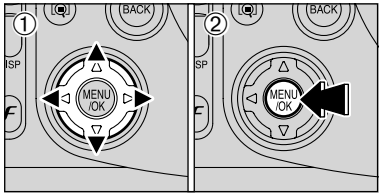
1



① Set the Power switch to "📷".
② Set the Mode dial to Still photography mode or Movie mode.
③ Press the Photo mode (F) button.

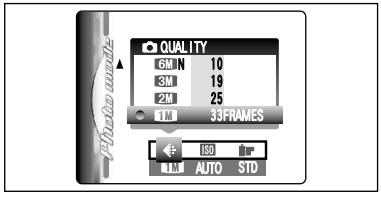
The quality setting is retained even when the camera is turned off or the Mode dial is changed.

2



① Press "◀" or "▶" to select the "⚙" quality setting and then press "▲" or "▼" to change the setting.
② Press the "MENU/OK" button to confirm the setting.

Quality settings in Still photography mode

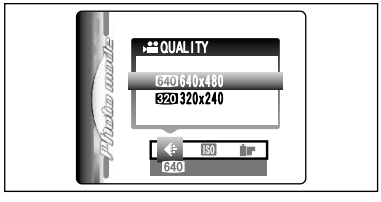


Choose from 5 settings. Using the table below as a guide, select the setting that best suits the aims.

- The numbers to the right of each setting show the number of available frames.
- When changing the quality setting, the number of available frames also changes (➡P.26).

Quality mode	Sample Uses
6M F (2832 × 2128)	Printing at A4 size or printing part of the image cropped at A5 or A6 size. For better image quality, select "6M F".
6M N (2832 × 2128)	Printing at A4 size or printing part of the image cropped at A5 or A6 size.
3M (2048 × 1536)	Printing at A4 or A5 size or printing part of the image cropped at A6 size.
2M (1600 × 1200)	Printing at A5 or A6 size.
1M (1280 × 960)	Printing at A6 size.

Quality settings in Movie mode

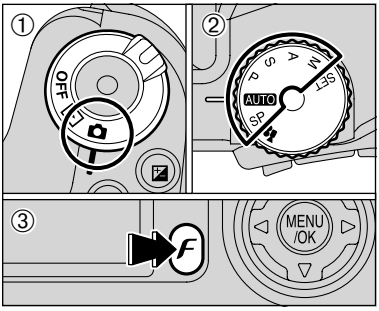


The movie sizes are "640" and "320".

- **Movie size**
  640 640 × 480 pixels (for better quality)
  320 320 × 240 pixels (to record longer movies)
- **Frame rate**
  30 frames per second (fixed)

See P.117 for information on the frame rate.

1

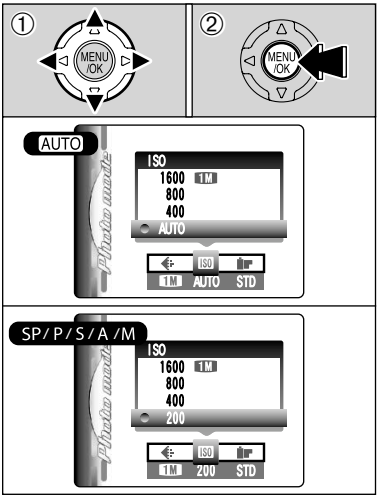


① Set the Power switch to "📷".
② Set the Mode dial to Still photography mode.
③ Press the Photo mode (F) button.

In "🎥" Movie mode, do not set the "ISO" (sensitivity) setting.

Sensitivity is retained even when the camera is turned off or the Mode dial is changed.

2



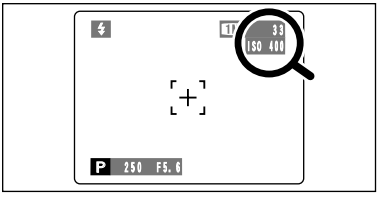
① Press "◀" or "▶" to select the "ISO" setting and then press "▲" or "▼" to change the setting.
② Press the "MENU/OK" button to confirm the setting.

- **Settings**
  AUTO: AUTO (160 to 800) / 400 / 800 / 1600
  SP, P, S, A and M: 200 / 400 / 800 / 1600

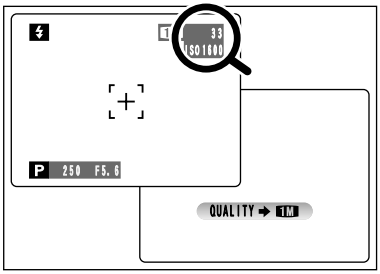
When setting CCD-RAW (➡P.88), only the "200" and "400" sensitivity settings can be selected.
While selecting a higher sensitivity setting will allow you to take pictures in darker locations, it will also increase the amount of speckling in your images. Streaking may also be visible in shots of scenes such as the night sky.
Choose the sensitivity setting that best suits the conditions.

Selecting AUTO as the sensitivity setting, the camera selects the best sensitivity setting for the subject brightness.
The AUTO sensitivity setting can be selected in the "AUTO" Photography modes.

3



When the sensitivity is set to "200", "400", "800" or "1600" the selected sensitivity setting appears on the screen.



High-sensitivity photography (1600)

When a high-sensitivity (1600) is selected, the quality is set to "1M" (the "QUALITY ➡ 1M" appears).

- The digital zoom cannot be used in high-sensitivity photography.
- The high-sensitivity photography cannot be selected when setting CCD-RAW (➡P.88).
- When you specify a high sensitivity, the amount of noise (interference) in the image shown on the screen before the picture is taken increases. However, this is normal.

High-sensitivity photography is retained even when the camera is off or the Mode dial is changed.

◆ Quality setting in High-sensitivity mode ◆

If you try to select a quality setting (➡P.32) other than "1M" when the camera is set to High-sensitivity mode, "ISO1600" appears blinking and the quality cannot be changed.

FOCUSING (DISTANCE)

The distance from the subject to the camera is referred to as the shooting distance.
When the shooting distance is set correctly and the image appears sharp, the image is focused.

■ Three focusing methods

There are mechanisms for focusing: (1) Single AF (S-AF); (2) Continuous AF (C-AF); and (3) Manual focus (MF).

S-AF: Use S-AF for normal photography. In this mode, the camera focuses each time the Shutter button is pressed down halfway.

◆ The AF sensor ◆

The FinePix S20 Pro uses an external AF sensor (external-light passive phase difference AF) that features faster AF operation than previous models. The external AF sensor does not function when Macro mode, Super macro mode, the digital zoom, AREA or C-AF focusing is used or when "ADAPTER-YES" is selected. It may take longer to focus if the external AF sensor is soiled (➡P.113).

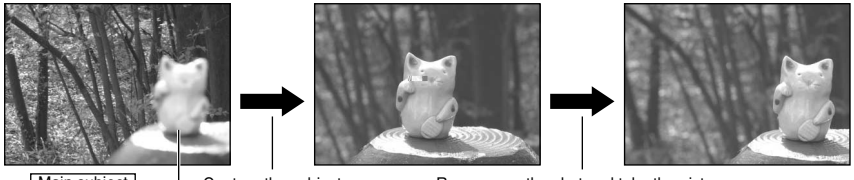
C-AF: Use C-AF when photographing moving subjects. When this mode is set, the camera focuses continuously on the subject in the center of the screen. See P.49 for details.

MF: The focus is adjusted by turning the focusing ring manually. See P.48 for details.

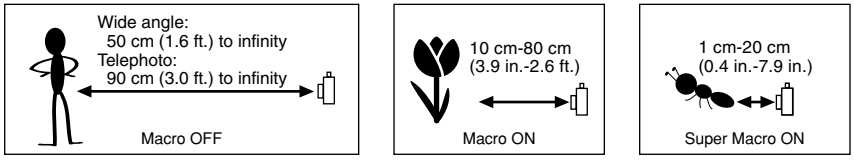
■ Causes of focusing errors and the solutions

Cause	Solution
The subject is not in the AF frame.	Use AF lock (Focus mode: AF (CENTER))✻1 or MF.
The subject is not suited to AF.	Use AF lock (Focus mode: AF (CENTER))✻1 or MF.
The subject is outside the shooting range.	Turn Macro mode on or off (✻2).
The subject is moving too quickly.	Use MF (pre-setting the shooting distance for a shot)

✻1 Taking pictures using AF lock



✻2 Turning Macro mode ON/OFF

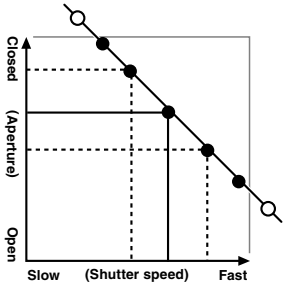


◆ Subjects not suitable for auto focus ◆

- Very shiny subjects such as a mirror or car body
- Subjects photographed through glass
- Subjects that do not reflect well, such as hair or fur
- Subjects with no substance, such as smoke or flames
- When the subject is dark
- Subjects moving at high speed
- When there is very little contrast between the subject and the background (such as white walls or subjects dressed in the same color as the background)
- When there is a high-contrast subject other than the main subject at or near the center of the image and that subject is closer to or further from the camera than the main subject (as when taking a picture of someone against a background with contrasting colors)

EXPOSURE (SHUTTER SPEED AND APERTURE)

Exposure refers to the light that hits the CCD or the total amount of captured light and determines the brightness of the image.
The exposure is determined by the combination of aperture and shutter speed. In AE (automatic exposure), the camera determines the correct exposure, allowing for factors such as the brightness of the subject and the sensitivity setting.



The graph at left shows the way the aperture and shutter speed settings can be changed while maintaining the same exposure level.

- When the aperture is decreased by one step, the shutter speed also decreases by one step (the dot moves upper left).
- When the aperture is increased by one step, the shutter speed also increases by one step (the dot moves lower right).
- Combinations that result in the shutter speed or aperture being outside the available range of settings cannot be selected (white dots).
- In the "P", "S" and "A" photography modes, it is easy to select different settings along this line.
- Selecting settings that run parallel to this line by adjusting the brightness of the photographed image is referred to as exposure compensation.

◆ When you cannot get the correct exposure ◆

AE lock: Determines and fixes the exposure at a target level. Use the following procedure to take a picture using AE lock:
Press the "AE-L" button (sets and locks the exposure). ➡ Press the Shutter button down halfway (sets and fixes the focus). ➡ Press the Shutter button down fully (takes the picture).

Exposure compensation:
This function uses the exposure level set by the AE function as a reference (0) and then brightens (+) or darkens (–) the image. By selecting Auto bracketing, you can shoot 3 frames, one underexposed (–), one at the reference exposure (0) and one overexposed (+).

Shutter speed

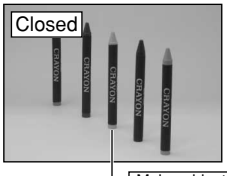
When shooting a moving subject, you can either "freeze the motion" or "capture the sense of movement" by adjusting the shutter speed.

Freezes the motion of the subject.

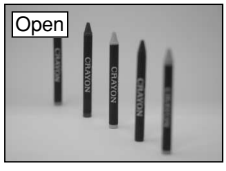
Photographs the traces left by the subject's movement.

Aperture

By adjusting the aperture, you can change the depth of focus (depth of field).



The area in front of and behind the subject is also in focus in the shot.



The background is out of focus.

TAKING PICTURES — SELECTING THE CAMERA SETTINGS

Consider the scene you are photographing and the sort of image you want to achieve when you specify the camera settings. A general guide is given below.

1 Select the Photography mode (➡P.40-44, 67-68).

AUTO	Specifies all settings other than Quality, Sensitivity and FinePix COLOR on the camera.
SP	Selects the best Scene Position setting (Portrait, Landscape, Sports or Night scene) for the scene being shot.
P/S/A	Changes the aperture or shutter speed setting so that the action is frozen, so that the flow of the motion is conveyed, or so that the background is out of focus.
M	Adjusts all the camera settings yourself.
	Shoots a movie.

2 Specify the photography settings (➡P.45-55).

	Flash	Uses for shots in dark locations or for backlit subjects, etc.
	Macro/ Super macro	Uses for close-up shots.
AE-L	AE lock	Fixes the exposure settings.
	Exposure compensation	Uses the AE exposure as a reference value of 0, this function brightens (+) or darkens (–) the shot.
	Continuous shooting	Uses to take a series of continuous shots or to use auto bracketing (with exposure compensation).

3 Take the pictures (check the exposure and focus ➡ adjust the shot composition ➡ press the Shutter button down fully).

★ You can use the menus for more detailed settings (➡P.32-35, 57-66).

The table below provides a number of sample settings. Use the settings effectively.

To achieve this result	Sample settings
To express the motion of the subject	Set the Mode dial to "S" and select a slow shutter speed. (Use a tripod to avoid camera shake.)
To freeze the subject's movement	Set the Mode dial to "S" and select a fast shutter speed.
To make the subject stand out by having the background out of focus	Set the Mode dial to "A" and select a wide aperture setting.
To get a very large depth of focus	Set the Mode dial to "A" and select a narrow aperture setting.
To prevent the image having a red or blue cast due to the light source	Change the "White balance" setting in the photography menu.
To avoid missing snapshot opportunities	Take pictures in AUTO mode (see "Using the Camera").
To prevent the subject from being overexposed or underexposed and to show the substance and textures of the subject clearly.	Use exposure compensation. Select (+) if the background is pale and (–) if the background is dark.

■ List of functions available in each mode

Function \ Photography mode		AUTO	SP				P	S	A	M	
			Portrait	Landscape	Sports	Night scene					
Flash	Auto flash mode	YES	YES	NO	YES	NO	NO	NO	NO	NO	NO
	Red-eye reduction	YES	YES	NO	NO	NO	YES	YES	YES	YES	NO
	Forced flash	YES	YES	NO	YES	NO	YES	YES	YES	YES	NO
	Slow synchro	NO	YES	NO	NO	YES	YES	NO	YES	NO	NO
	Red-eye reduction+ slow synchro	NO	YES	NO	NO	YES	YES	NO	YES	NO	NO
Macro/ Super macro		YES	NO	NO	NO	NO	YES	YES	YES	YES	NO
AE-L AE lock		YES	YES				YES	YES	YES	NO	NO
Exposure compensation		NO	NO				YES	YES	YES	NO	NO
Focus mode (S-AF/MF/C-AF)		YES	YES				YES	YES	YES	YES	NO
Continuous shooting	Top 10-frame	YES	YES				YES	YES	YES	YES	NO
	Auto bracketing	NO	NO				YES	YES	YES	YES	NO
	Final 10-frame	YES	YES				YES	YES	YES	YES	NO
	Long-period (up to 40 frames)	YES	NO				NO	NO	NO	NO	NO

✻ The flash cannot be used for Continuous shooting and Super Macro.
✻ Long-period continuous shooting and high-sensitivity photography cannot be used together.

■ List of menu options available in each mode

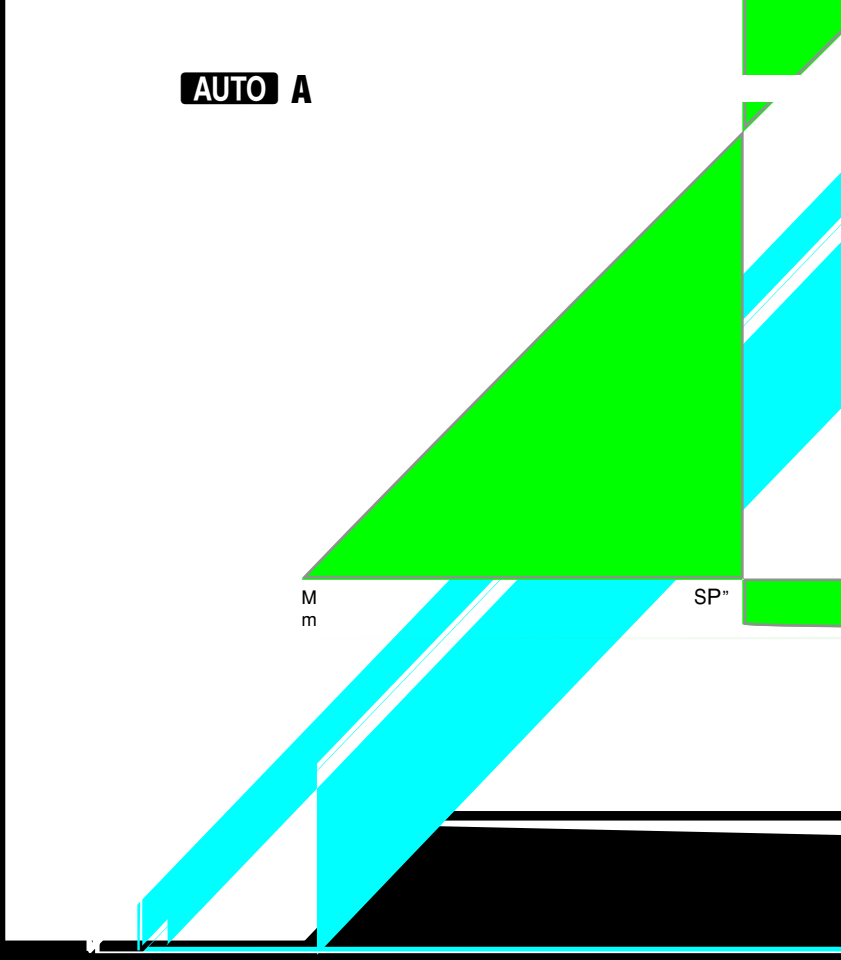
			Factory Defaults	AUTO	SP	P	S	A	M	
FinePix Photo mode	QUALITY		1M	YES	YES	YES	YES	YES	YES	YES ✻1
	ISO		AUTO ✻2	YES	YES	YES	YES	YES	YES	NO
	FinePix COLOR		F-STANDARD	YES	YES	YES	YES	YES	YES	NO
Photography menu	Self-timer		OFF	YES	YES	YES	YES	YES	YES	NO
	White balance		AUTO	NO	NO	YES	YES	YES	YES	NO
	AF mode	MULTI	CENTER	NO	NO	YES	YES	YES	YES	NO
		CENTER		NO	NO	YES	YES	YES	YES	NO
		AREA		NO	NO	YES	YES	YES	YES	NO
	Photometry		MULTI	NO	NO	YES	YES	YES	YES	NO
	Bracketing		±1/3EV	NO	NO	YES	YES	YES	YES	NO
	Sharpness		NORMAL	NO	NO	YES	YES	YES	YES	NO
	Multiple exposure		OFF	NO	NO	YES	YES	YES	YES	NO
	Flash brightness adjustment		0	NO	NO	YES	YES	YES	YES	NO
	External flash		OFF	NO	NO	YES	YES	YES	YES	NO

✻1 The factory default quality for Movie mode is 640 × 480 pixels.
✻2 AUTO can only be set in "AUTO" mode.
✻ High-sensitivity photography cannot be used together with Long-period continuous shooting.
✻ AREA cannot be used together with continuous AF (C-AF).

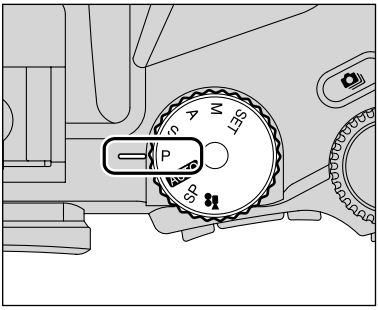
When shutter speed and aperture adjustments alone do not give the correct exposure.

When the image is too bright
Lower the ISO sensitivity setting.
Use an ND filter (Sold separately).

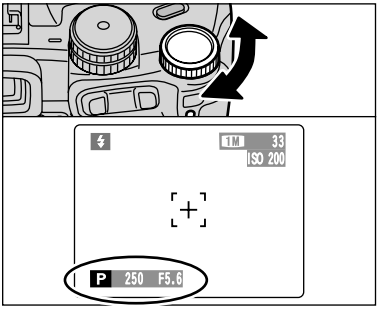
When the image is too dark
Raise the ISO sensitivity setting.
Use flash or the brightness adjustment function.


AUTO A
M
m
SP”

P PROGRAMMED AUTO



Set the Mode dial to "P".
This is an automatic mode that allows you to specify any of the settings other than the shutter speed and aperture. This allows you to take shots relatively simply in the same way as the Shutter-priority Auto and Aperture-priority Auto modes (program shift).

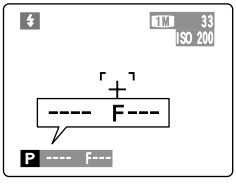


Program shift

Turn the Command dial to select different shutter speed and aperture setting combinations without changing the exposure setting. The shutter speed and aperture setting are displayed in yellow when the camera is in Program shift mode.

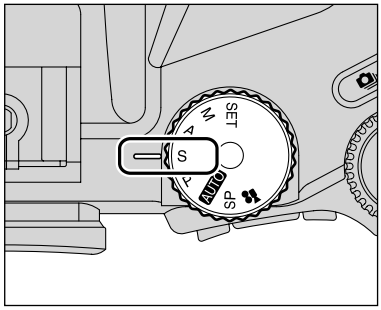
Program shift is automatically cancelled in the following situations:
- When the Photography mode is changed
- When the flash is popped up
- When "EXTERNAL FLASH" in the main menu is set to "ON"
- When the Playback mode is selected
- When the camera is turned off

◆ The shutter speed and aperture setting display ◆

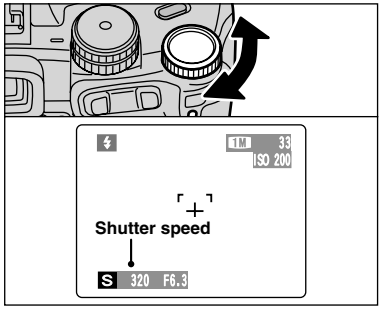


When the brightness of the subject is outside the camera's brightness metering range, "---" appears as the shutter speed and aperture setting on the screen.

S SHUTTER-PRIORITY AUTO



Set the Mode dial to “S”.
This is an automatic mode that allows you to set the shutter speed. Use this mode for shots where you want to freeze a moving subject (fast shutter speed) or convey the impression of movement (slow shutter speed).



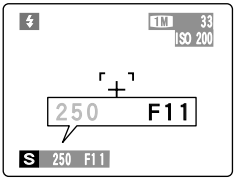
Setting the shutter speed

Turn the Command dial to select the shutter speed.

- **Shutter speed settings**
  3 sec. to 1/1000 sec. in 1/3 EV increments

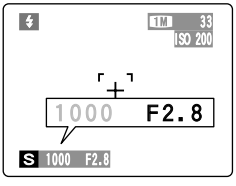
◆ The shutter speed and aperture setting display ◆

Overexposed



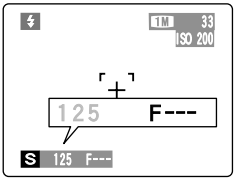
In scenes that are extremely overexposed, the aperture setting (F11) appears in red. When this occurs, select a faster shutter speed (up to 1/1000 sec.).

Underexposed



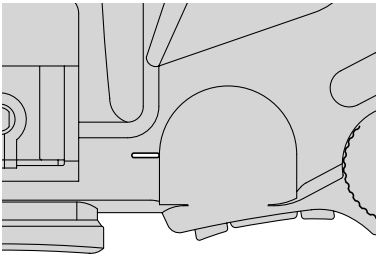
In scenes that are extremely underexposed, the aperture setting (F2.8) appears in red. When this occurs, select a slower shutter speed (down to 3 sec.).

Metering failed



When the brightness of the subject is outside the camera’s brightness metering range, “F---” appears as the aperture setting. When this occurs, press the Shutter button down halfway to measure the light level again and display a value.

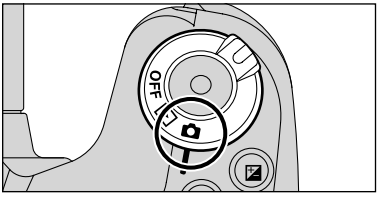
A APERTURE-PRIORITY AUTO



FLASH PHOTOGRAPHY (AUTO) (SP) (EXCLUDING ▲) (P) (S) (A) (M)

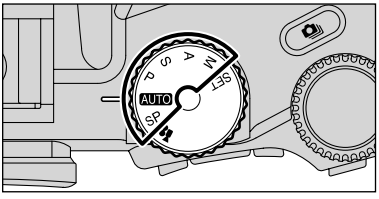
Choose from 6 flash modes according to the type of shot.

1



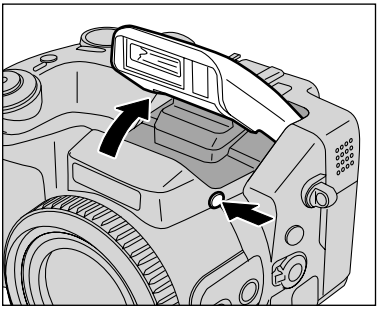
Set the Power switch to "📷".

2



Set the Mode dial to Still photography mode.

3

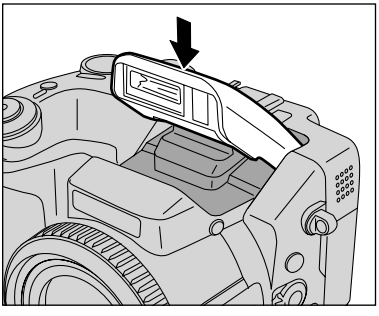


Press the Flash pop-up button to pop-up the flash.

- **Effective flash range (AUTO)**
  Wide-angle: Approx. 0.3 m to 8.5 m (1.0 ft. to 27.9 ft.)
  Telephoto: Approx. 0.9 m to 7.9 m (3.0 ft. to 25.9 ft.)

- If the shutter speed is set to a speed faster than 1/1000 sec., the image may appear dark even if the flash is used.
- When the flash pops up, the image on the screen may disappear and the screen may go dark due to flash charging. When this happens, the indicator lamp blinks orange.

◆ Suppressed flash ◆

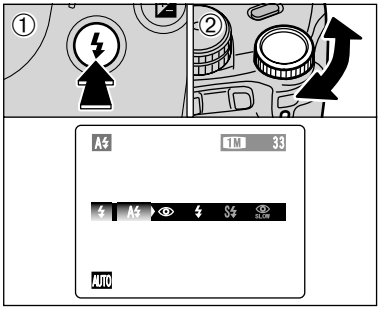


Pressing the flash down changes the camera to Suppressed flash mode.
Use this mode for photography using indoor lighting, for shots taken through glass, and for photography in venues such as theaters or at indoor sporting events where the distance is too great for the flash to be effective. When you use Suppressed flash, the Auto white balance function (➡P.117) operates so that natural colors are captured along with the ambience of the available light.

- Shooting in Suppressed flash mode in dark conditions, use a tripod to prevent camera shake.
- See P.26, 111 for information on the camera shake warning.

Continued

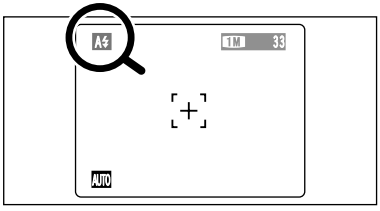
4



① Hold down the "ϟ" button.
② Turn the Command dial to select the flash mode setting.

See P.64 for information on using an external flash.

The available Flash modes are limited depending on the Photography mode selected (➡P.39).



The "A ϟ", "👁", "ϟ", "S ϟ" or "SLOW" appears on the screen when the flash is used.

- When using the flash in dusty conditions or when it is snowing, white dots may appear in the image will reflect off the dust particles or snowflakes. Try taking the picture using Suppressed flash mode.
- When taking a picture using the flash, the image may disappear and the screen go dark as the flash charges. At the time, the indicator lamp blinks orange.

A ϟ Auto flash mode

Use this mode for ordinary photography. The flash fires as required by the shooting conditions.

- If pressing the Shutter button while the flash is charging, the picture will be taken without the flash.

👁 Red-eye reduction

Use this mode to make sure that the subject's eyes appear normal when taking pictures of people in low-light conditions. The flash fires a pre-flash just before the picture is taken and then fires again to take the actual picture. The flash fires as required by the shooting conditions.

- If pressing the Shutter button while the flash is charging, the picture will be taken without the flash.

◆ Red-eye effect ◆

When using the flash to taken a picture people in low-light conditions, their eyes sometimes appear red in the picture. This is caused by the light of the flash reflecting off the inside of the eye. Use Red-eye reduction flash to minimize the likelihood of the effect.
Take the following measures to make Red-eye reduction more effective:
● Get the subjects to look at the camera. ● Get as close as possible to the subjects.

Forced flash

Use this mode in backlit scenes, such as a subject against a window or in the shade of a tree, or to get the correct colors when taking a picture under bright lighting. In this mode, the flash fires in bright as well as dark conditions.

Slow synchro

This is a Flash mode that uses a slow shutter speed. This allows you to take pictures of people at night that clearly show both your subjects and the night time backdrop. To prevent camera shake, always use a tripod.

- **Slowest shutter speed**
  "☾" Night scene (SP): Up to 3 sec.

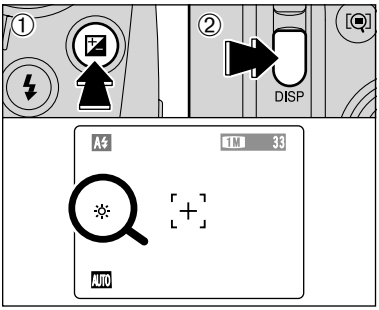
Red-eye reduction + Slow synchro

Use this mode for Slow synchro shots with Red-eye reduction.

The image may be overexposed when shooting bright scenes.

To take a picture of a main subject at night with the background brightly lit, please use the "SP" mode "☾" (Night scene) settings (➡P.40).

◆ Increasing the monitor brightness ◆



This is useful when you are checking the shot composition for dimly lit scenes (Slow synchro shots, etc.).

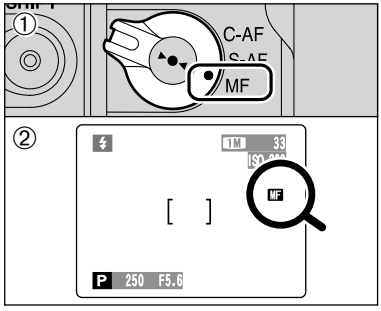
① Hold down the "◪" button.
② Press the "DISP" button. "☼" appears on the screen and the subject is displayed brightly.

To cancel increased brightness:

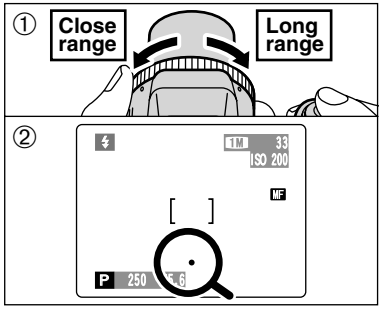
① Hold down the "◪" button.
② Press the "DISP" button again.

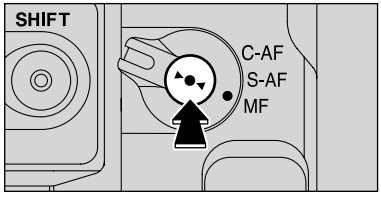
- This function is cancelled after each shot.
- This function is purely for checking the composition of your shot. It does not increase the brightness of the image.
- Even if you increase the brightness in low-light conditions, you cannot check the subject.

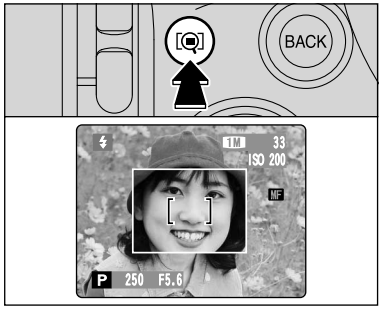
1


①
C-AF
MF
②
1M 33
ISO 200
MF
P 250 F5.6

2


①
Close range
Long range
②
1M 33
ISO 200
MF
P 250

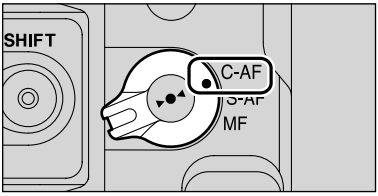

SHIFT
C-AF
S-AF
MF


BACK
1M 33
ISO 200
MF
P 250 F5.6

CONTINUOUS AF

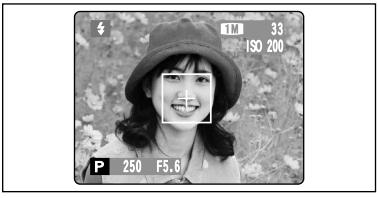
Use this button to take pictures of a moving subject. Using Continuous AF mode reduces the time required for focusing.

1



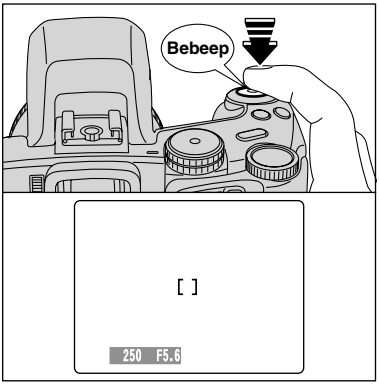
Set the Focus mode selector switch to “C-AF”.

2



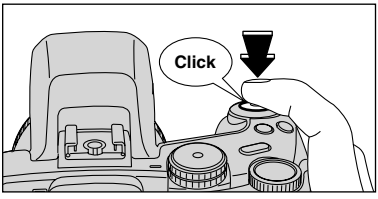
Frame the shot so that the subject fills the center of the image or the entire AF frame.

3



Press the Shutter button down halfway. When a short double-beep is heard, the camera focuses on your subject. At that point, the AF frame on the screen becomes smaller and the camera sets the shutter speed and aperture (the indicator lamp (green) stops blinking and remains lit).

4



Press the Shutter button down fully without releasing it. When a clicking noise is heard, the camera records the image.

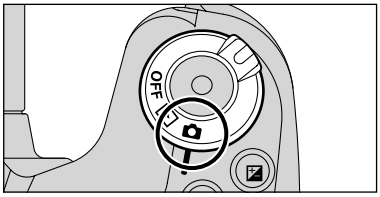
The AF mode is forcibly reset to AF (CENTER).

◆ Notes on continuous AF ◆

Check the battery charge when using C-AF mode.
Because the camera focuses continually without pressing the Shutter button, C-AF mode needs much more battery consumption than using S-AF or MF mode.

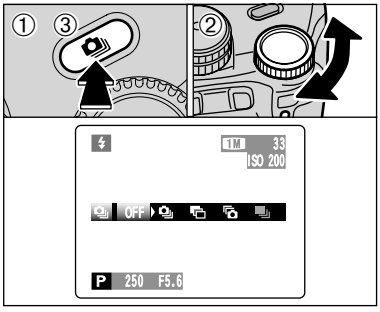
CONTINUOUS SHOOTING

1



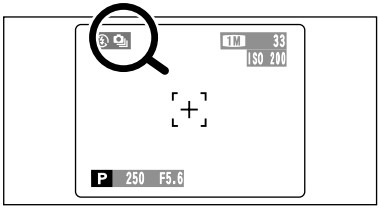
Set the Power switch to "📷".

2



① Hold down the "📷" button.
② Turn the Command dial to select the Continuous shooting mode.
③ Release the "📷" button to confirm your selection.

3



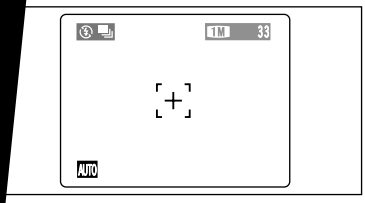
Setting the Continuous shooting mode (except for "OFF"), the selected mode appears on the screen.

- 📷: Top 10-frame continuous shooting
- 📷: Auto bracketing
- 📷: Final 10-frame continuous shooting
- 📷: Long-period continuous shooting

◆ Notes on using the Continuous shooting modes ◆

- Shooting continues for as long as you hold down the Shutter button. In Auto bracketing mode however, just press the Shutter button once to shoot 3 frames.
- If there is insufficient space on the media, as many frames are shot as can be recorded on the available space. When auto bracketing, if there is insufficient space on the media to record 3 frames, no pictures are taken.
- The focus is determined in the first frame and cannot be changed in mid-sequence.
- The exposure is determined in the first frame, but in Long-period continuous shooting the exposure is adjusted for the scene being shot.
- The speed of continuous shooting varies depending on the shutter speed.
- The speed of continuous shooting does not change with the quality setting.
- The flash cannot be used as the flash mode is set to Suppressed flash.
- For Continuous shooting, final 10-frame continuous shooting and pictures taken using auto bracketing, the results are always displayed after you shoot. To choose whether or not to record the images, set "IMAGE DISP." in SET-UP to "PREVIEW" (➡P.83). Note that pictures taken using Long-period continuous shooting are recorded regardless of the setting in SET-UP.

ong-period continuous shooting 280 × 960-pixel mode



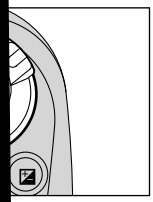
This ows you to take up to 40 continuous shots vals as short as 1 second). In Long-perio ous shooting with 1280 × 960-pixel mode ber of recorded pixels is set to "1M" (1280 els).

Long nuous shooting cannot be used in the "SP "P", " "M" modes.

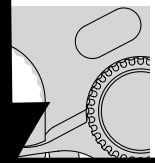
Focusing on a moving subject

u press the Shutter button down halfway to focus on th at the starting point Ⓐ, the subj no longer be in focus when it reaches point Ⓑ where y take the shot.
ch situations, focus on point Ⓑ beforehand and then lo s so that it does not shift.
eature is also useful for photographing fast-moving sul are difficult to focus on.

get the correct brightness (exposure), such as shots with extremely
ect and the background.



Set the Power switch to "📷".

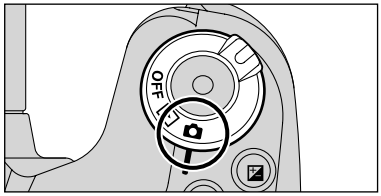


AE-L USING AE LOCK

AUTO SP P S A

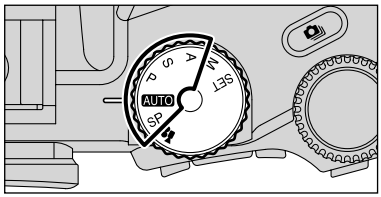
Use this function to take pictures with the exposure locked for a particular subject.

1



Set the Power switch to "📷".

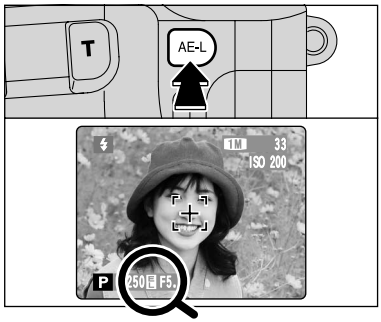
2



Set the Mode dial to "AUTO", "SP", "P", "S" or "A" mode.

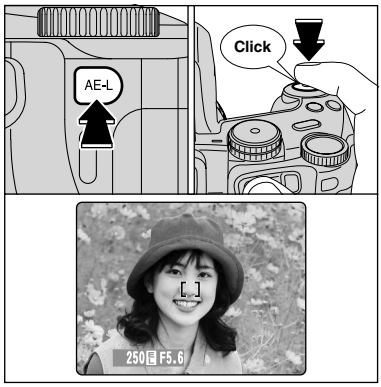
- AE lock cannot be used when Long-period continuous shooting is selected.

3



Position the subject in the center of the screen and press the "AE-L" button.
"▣" appears on the screen and the exposure is locked while you hold down the "AE-L" button.

4



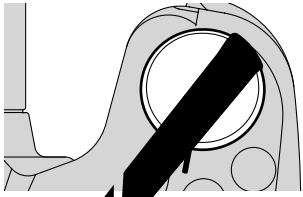
With the "AE-L" button held down, press the Shutter button down halfway to focus the shot and then compose the shot again.

- Once you press the Shutter button down halfway, the exposure remains locked even if you release the "AE-L" button.
- When the AE lock is applied, pressing the Shutter button down halfway only sets the focus.

MACRO (CLOSE-UP)

AUTO P S A M

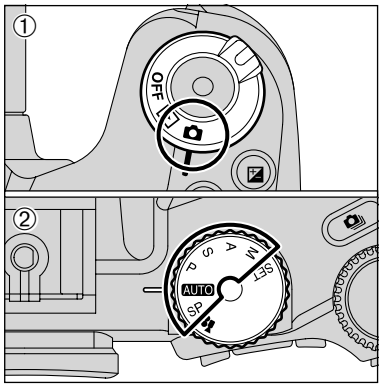
Select Macro mode to take close-up shots.



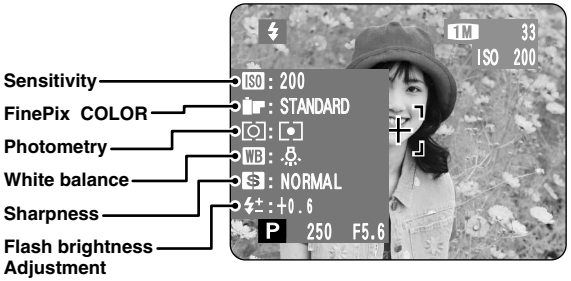
PHOTOGRAPHY INFORMATION

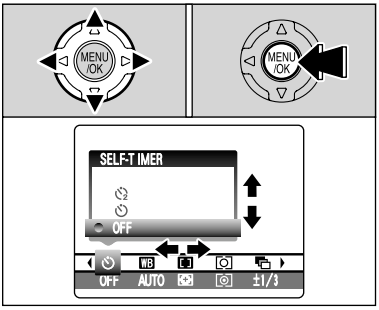
If you cannot recall the current photography settings, you can check them by holding down the "INFO" button.

1

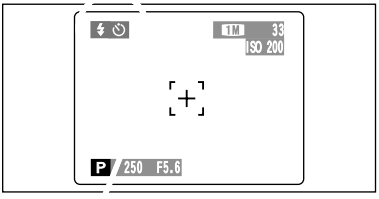


① Set the Power switch to "📷".
② Set the Mode dial to Still photography mode.



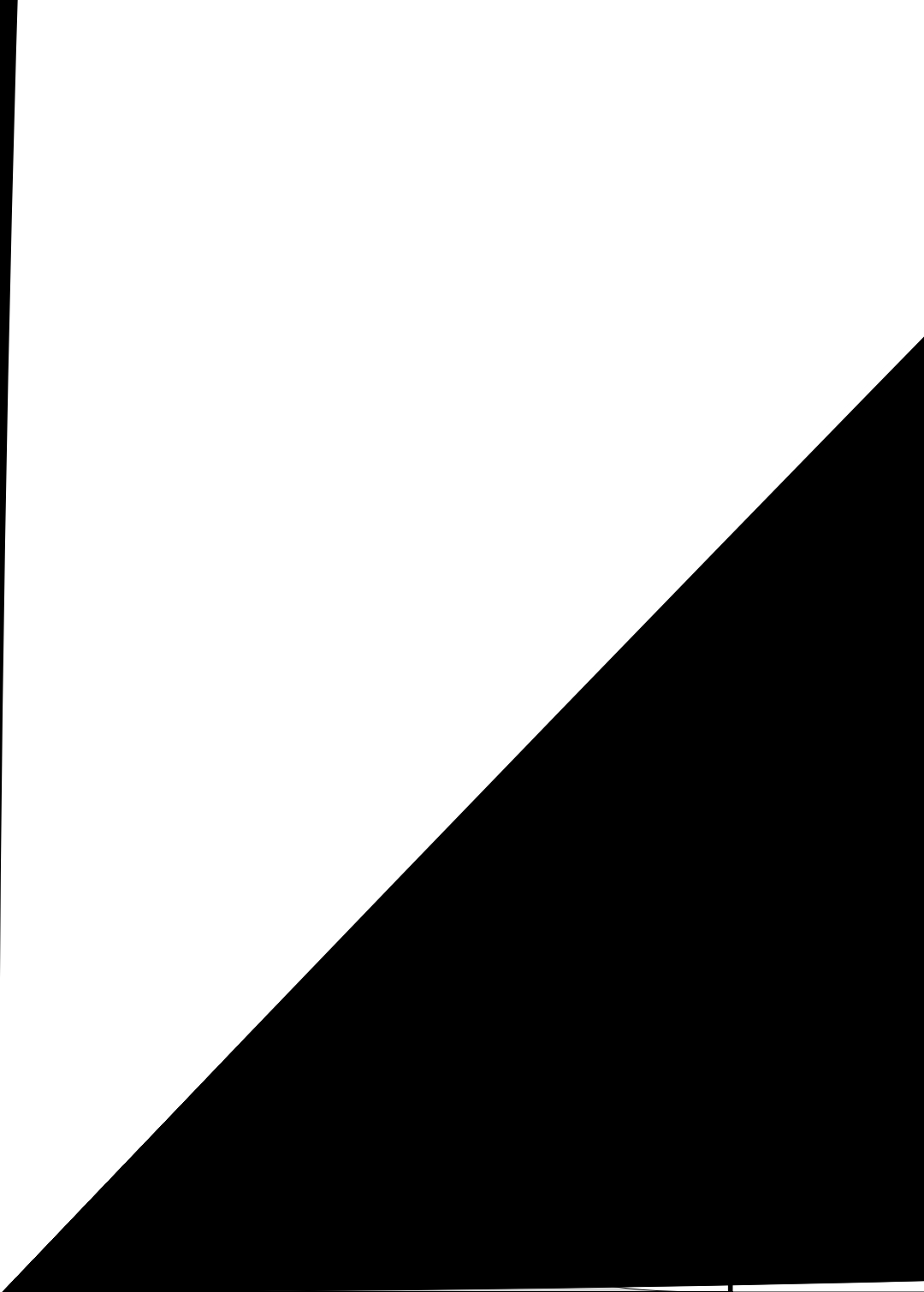


3

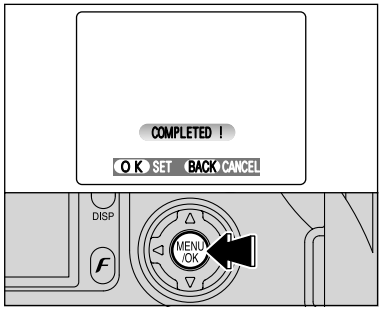


When you enable the setting, an icon appears in the top-left corner of the screen.

The settings available in the menu screen vary depending on the Still photography mode.

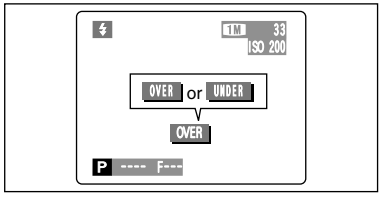


3



When the correct exposure is measured, "COMPLETED !" appears.
Press the "MENU/OK" button to confirm the setting.

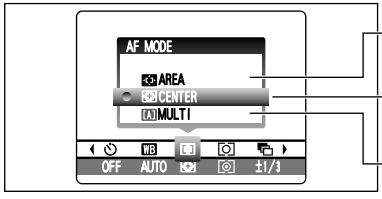
- The specified custom white balance is retained until it is reset. This setting is retained even if the batteries are removed.
- After taking the picture, check the "Color (White Balance)" setting for the image.
  - Set "IMAGE DISP." to "PREVIEW" in the SET-UP screen (➡P.83).
  - Set the Power switch to "▶" (➡P.19).



When "OVER" or "UNDER" appears, the white balance was not measured at the correct exposure. Set the exposure compensation again, using a negative value (–) when "OVER" appears and a positive value (+) when "UNDER" appears.

[ ] AF MODE

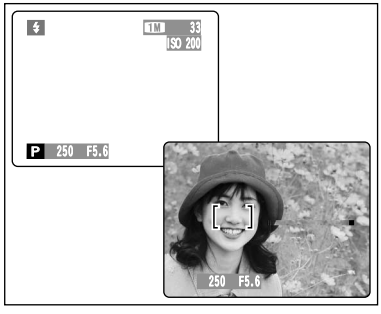
P S A M



AREA

CENTER

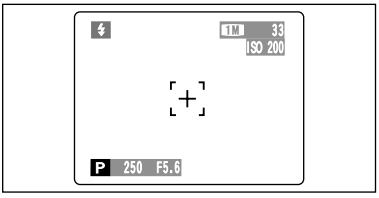
[A] MULTI



[A] MULTI

Pressing the Shutter button down halfway, the camera recognizes any strongly contrasting subject near the center of the screen and displays the AF frame over subject in focus.

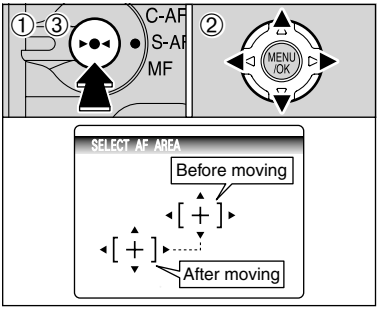
- If the camera has difficulty in focusing on the main subject, select the "▣" CENTER focusing mode and use AF/AE lock (➡P.27).



CENTER

The camera focuses on the center of the screen. Use this setting when taking pictures using AF/AE lock (➡P.27).

1

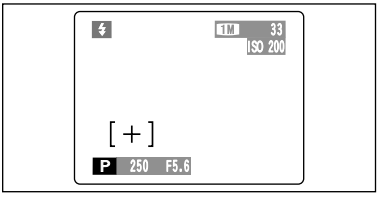


AREA

The camera changes the focusing position on the screen. Use this setting when composing the shot using a tripod and changing the focusing position.

① Hold down the "▶●◀" button.
② Press "▲", "▼", "◀" or "▶" to move the "⊹" (target point) to the focusing position.
③ Release the "▶●◀" button.

2



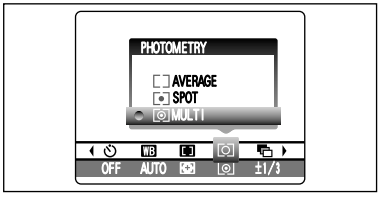
The AF frame appears in the location to which the target point was moved.
Take the picture in the normal way.
To reposition the AF frame, repeat step **1**.

Regardless of the AF frame location, the exposure is always set using the area in the center of the screen. To expose the shot for your main subject, use AE lock.

STILL PHOTOGRAPHY MENU

[○] PHOTOMETRY

P S A M



Use this setting for scenes where the brightness of the subject and background differ markedly so that the MULTI setting is unlikely to achieve the desired result.

[⊙] MULTI (Pattern):
Light metering where the camera assesses the scene and selects the correct exposure.

[•] SPOT:
Light metering where the exposure is optimized for the center of the image.

[ ] AVERAGE:
Light metering where an average value for the entire image is used.

- In the "AUTO", "SP" and "🎥" modes, light metering is locked at the MULTI setting and cannot be changed.

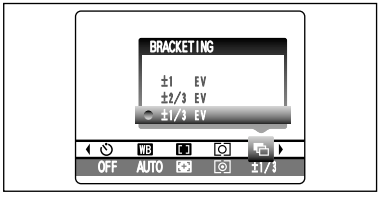
◆ The photometry modes are effective for the following subjects ◆

- **MULTI**
  In this mode, the camera uses automatic scene recognition to analyze the subject and provide optimum exposure in a wide range of shooting conditions. This mode should be used for everyday photography.
- **SPOT**
  This mode is useful for subjects with strongly contrasting light and dark areas where you want to achieve the correct exposure for a particular feature.
- **AVERAGE**
  The advantage of this mode is that the exposure tends not to change for different compositions or subjects. This mode is particularly effective for shots of people wearing black or white clothing and shots of scenery.

BRACKETING

P S A M

1

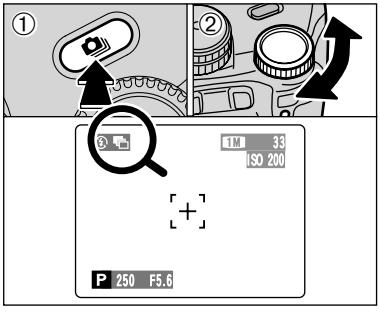


Use this setting to photograph the same image with different exposure settings. Bracketing shoots 3 continuous frames, one of which is correctly exposed while the remaining two are underexposed and overexposed respectively by a set amount.

- **Bracketing settings (3)**
  ±1/3 EV, ±2/3 EV, ±1 EV
  See P.117 for more information on EVs.

- If the underexposed or overexposed frame is outside the camera's control range, the shot is not taken with the specified setting increments.
- Flash photography cannot be used.
- This feature always takes 3 shots. However, if there is insufficient space on the media for 3 shots, no picture will be taken.

2

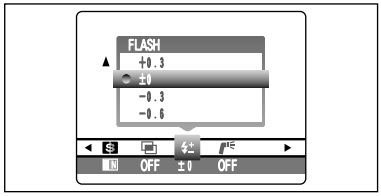


After setting the exposure for bracketing:
① Hold down the "📷" button.
② Turn the Command dial to select "🎞".

STILL PHOTOGRAPHY MENU

FLASH BRIGHTNESS ADJUSTMENT

P S A M



Use this setting to change just the amount of light emitted by the flash to suit the photography conditions or to achieve a desired effect.

- **Compensation range:** ±2 levels
  –0.6 EV to +0.6 EV in approx. 0.3 EV increments (total: 5 levels selectable)
  See P.117 for information on EVs.

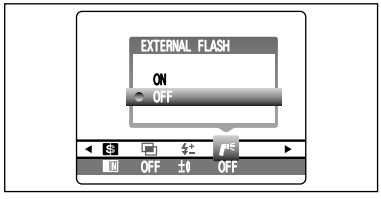
- Depending on the type of subject and the shooting distance, brightness adjustment may have no effect.
- The image may appear dark when the shutter speed is set to speeds higher than 1/1000 sec.

USING AN EXTERNAL FLASH

P S A M

Using a Hot shoe

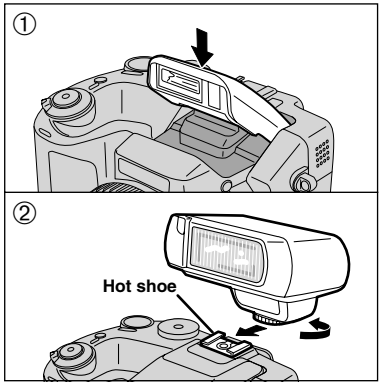
1



Select “ON” in this setting when using an external flash unit. Synchronized shutter speeds up to 1/1000 sec. can be used.

- The image may appear dark when the shutter speed is set to speeds higher than 1/1000 sec.
- Set the white balance (➡P.59) to AUTO or Custom white balance (➡P.66).

2

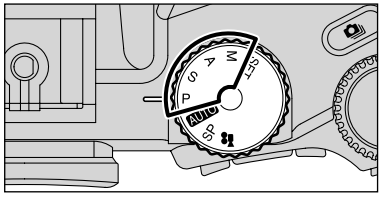


① Close the built-in flash.
② Mount the external flash on the camera’s hot shoe and tighten the locking screw.

- Built-in and external flash units cannot be used at the same time.

Ordinary external flash units can be used. However, some camera-specific flash units cannot be used.

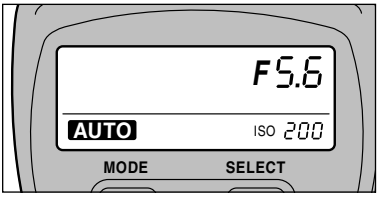
3



The mode can be set to “P”, “S”, “A” (➡P.41, 42, 43) or “M” (➡P.44), but the use of “A” or “M” is better.

- Flash photography cannot be used when continuous shooting (➡P.50) or auto bracketing (➡P.51) is selected.

4



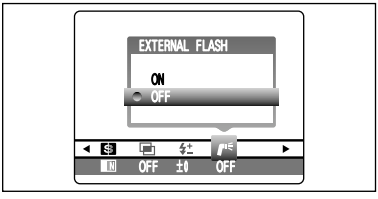
External flash settings (for flashes with automatic flash control)

For external flash, refer to the user's manual for the flash and specify the settings as described below.

- Select External flash mode (TTL mode cannot be used).
- Match the settings to the camera aperture setting. Set the flash for the aperture setting measured by the camera.
- Match the sensitivity setting (➡P.33) to the setting on the camera.

Using a Sync terminal

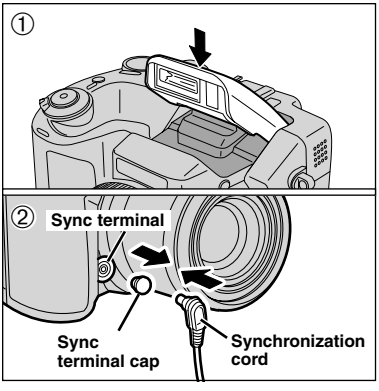
1



Select "ON" in this setting when using an external flash unit. Synchronized shutter speeds up to 1/1000 sec. can be used.

- The image may appear dark when the shutter speed is set to speeds higher than 1/1000 sec.
- Set the white balance (➡P.59) to AUTO or Custom white balance (➡P.66).

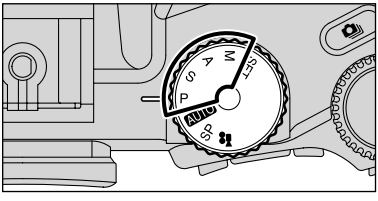
2



① Close the built-in flash.
② Attach the synchronization cord from the external flash to the Sync terminal on the camera by pushing the cord into the terminal securely.

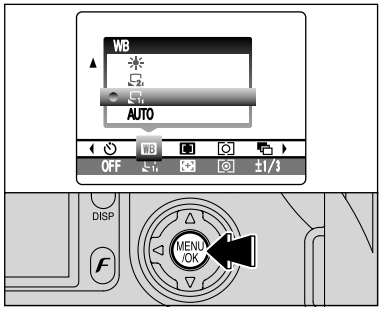
- Built-in and external flash units cannot be used at the same time.

3



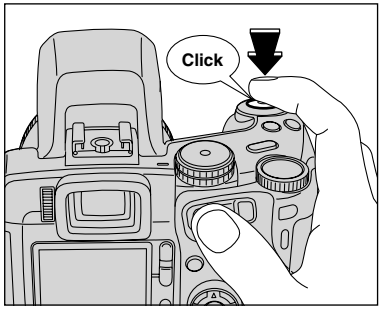
The mode can be set to "P", "S", "A" (➡P.41, 42, 43) or "M" (➡P.44), but the use of "A" or "M" is better.

- Flash photography cannot be used when continuous shooting (➡P.50) or auto bracketing (➡P.51) is selected.



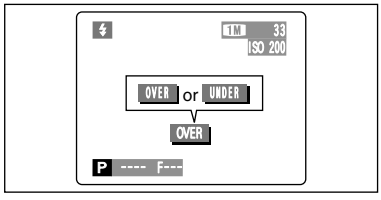
When the white balance is incorrect

Adjust the white balance to match the external flash.
In "WB" in the Photography menu (➡P.59), select "$_{1}$, $_{2}$" Custom white balance.
Press the "MENU/OK" button.



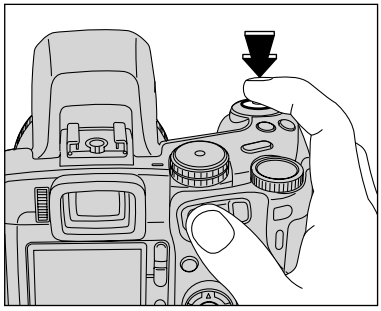
Hold a sheet of white paper so that it fills the entire screen.
When pressing the Shutter button, the flash fires and the white balance is set.

After you take the picture, please check the "Color (White Balance)" setting for the image.
- Set "IMAGE DISP." to "PREVIEW" in the SET-UP screen (➡P.83).
- Set the Power switch to "▶" (➡P.19).



When "OVER" or "UNDER" appears, the white balance was not measured at the correct exposure. Set the exposure compensation again, using a negative value (–) when "OVER" appears and a positive value (+) when "UNDER" appears.

4

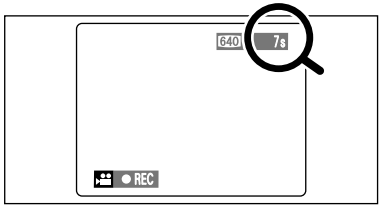


Press the Shutter button down fully to start recording.

- The brightness and color of the screen shown during movie recording may differ from those shown before recording begins.
- Do not need to hold down the Shutter button.

Pressing the Shutter button down fully locks the focus, but the exposure and white balance vary according to the scene being shot.

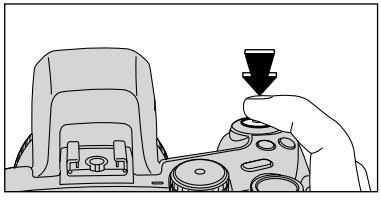
5



A counter appears in the top-right corner of the screen during recording shows the remaining time.

- If the brightness of the subject changes during movie recording, the sound of lens operation may be recorded.
- Some wind noise may be recorded in shots taken outdoors.
- When the remaining time runs out, recording ends and the movie is saved onto the media.

6



Press the Shutter button during recording to end recording.

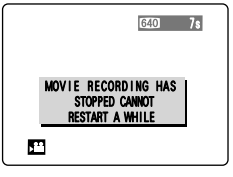
- If recording is stopped immediately after it begins, 1 second of movie is recorded onto the media.

◆ Notes on using Microdrives for movie shooting ◆

If the camera's internal temperature rises too high, movie shooting stops to protect the media. Because Microdrives tend to generate heat (for mechanical reasons), long periods of continuous movie shooting may not be possible when the ambient temperature is high. As a general guide to shooting times, you can shoot movies for around 20 minutes at an ambient temperature of +30°C/+86°F and for around 30 minutes at +25°C/+77°F.

①

②

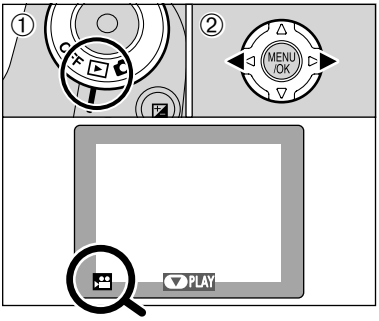
③ 

① If the camera's internal temperature rises during shooting, the message "MICRODRIVE IS OVERHEATING. MOVIE RECORDING WILL AUTOMATICALLY STOP SOON" appears.
② This then changes to "PLEASE STOP MOVIE RECORDING!". If you continue shooting, the movie is saved and the camera shuts down.
③ If you then immediately try to start shooting again, "MOVIE RECORDING HAS STOPPED CANNOT RESTART A WHILE" appears and you cannot start shooting. Switch the camera off and do not use it for roughly 30 minutes until it has cooled down. Note that you can still shoot still images during this period.

- Because the Microdrive is hot just after a movie is recorded, do not remove the Microdrive immediately.

PLAYING BACK MOVIES

1

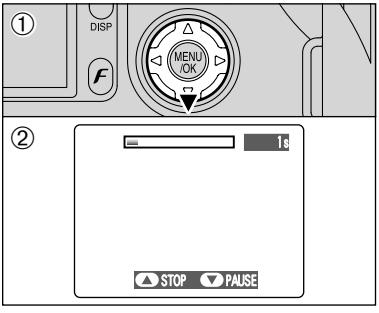


① Set the Power switch to "▶".
② Press "◀" or "▶" to select the movie file.

! Movies cannot be played back using multi-frame playback. Use the "DISP" button to select single-frame playback.

Indicated by the "🎥" icon.

2



① Press "▼" to play the movie.
② The screen shows the playback time and a playback progress bar.

! Take care not to block the speaker.
! When the sound is difficult to hear, adjust the volume (➡P.22).
! If the subject of the shot is very bright, white vertical streaks or black horizontal streaks may appear in the image during playback. This is normal.

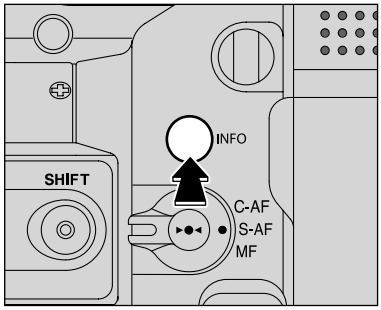
■ Playing Back Movies

	Control	Description
Playback/Pause		Playback begins. Playback stops when the end of the movie is reached. During playback, this button pauses the movie.
Stop		Stops playback. ✻ Press "◀" or "▶" while movie playback is stopped to go back to the previous file or advance to the next file respectively.
Fast forward/ Rewind	 Rewind Fast forward	Press "◀" or "▶" during playback to skip forwards or backwards through the movie.
Skip playback	 When paused	Press "◀" or "▶" when the movie is paused, the movie advances or goes back one frame.

◆ Playing movie files ◆

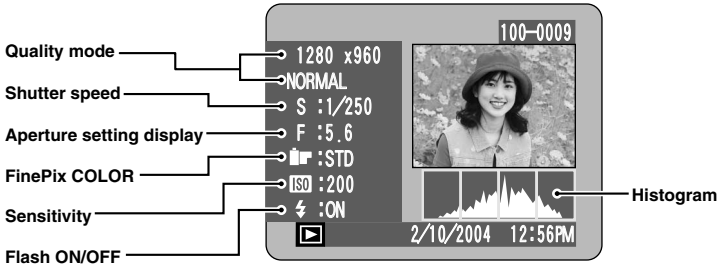
- You may not be able to play some movie files recorded on other cameras.
- To play back movie files on a computer, save the movie file on the media to the computer's hard disk and then play back the saved file.

PLAYBACK INFORMATION



Use this function to check the photography information. Hold down the “INFO” button to check the information.

This function cannot be used during multi-frame playback (➡P.29).



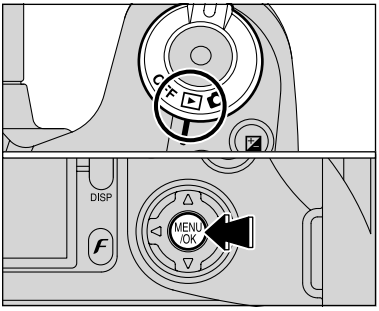
◆ Histograms ◆

A histogram is a chart showing the distribution of brightness in an image (horizontal axis: brightness; vertical axis: pixels).

① **Optimal exposure :** There is an ample distribution of pixels overall with a peak in the middle range.
② **Overexposed :** The number of highlight pixels is high with the distribution sloping upwards to the right.
③ **Underexposed :** The number of shadow pixels is high with the distribution sloping upwards to the left.

The shape of the graph will vary depending on the subject.

1

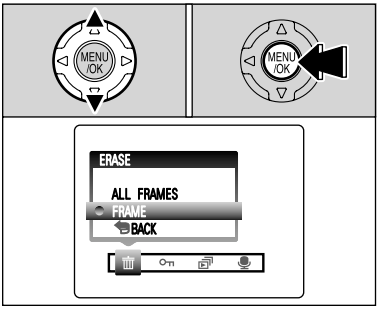


① Set the Power switch to "▶".
② Press the "MENU/OK" button to display the menu screen.

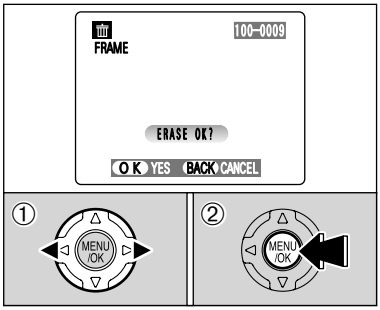
2

Press "◀" or "▶" to select "🗑" ERASE.

3



① Press "▲" or "▼" to select "ALL FRAMES" or "FRAME".
② Press the "MENU/OK" button.

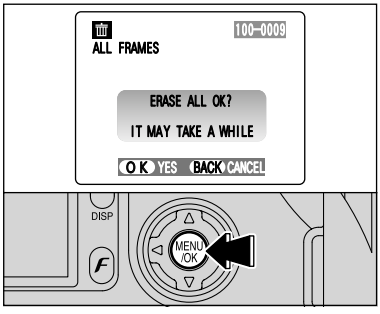


FRAME

① Press "◀" or "▶" to select the frame (file) to be erased.
② Press the "MENU/OK" button to erase the currently displayed frame (file).

To erase another frame (file), repeat steps ① and ②. When you have finished erasing frames (files), press the "BACK" button.

- Pressing the "MENU/OK" button repeatedly erases consecutive frames (files). Take care not to erase an frame (file) by mistake.
- Protected frames (files) cannot be erased. Unprotect the frames (files) before erasing them (➡P.73).



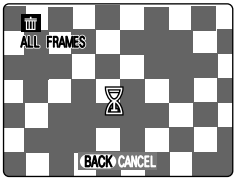
ALL FRAMES

Pressing the "MENU/OK" button erases all the frames (files).

- Protected frames (files) cannot be erased. Unprotect the frames (files) before erasing them (➡P.73).

If the "DPOF SPECIFIED." message appears, press the "MENU/OK" button again to erase the frames (files).

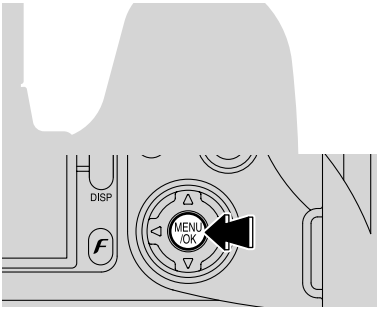
◆ To stop the procedure mid-way ◆

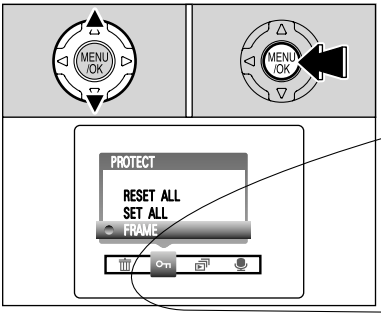


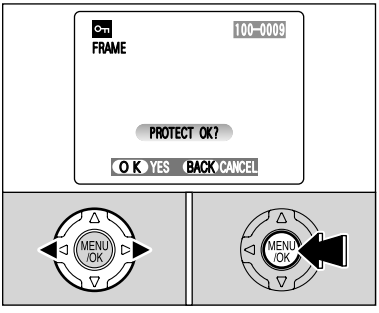
To cancel erasing of all the frames (files) while it is in progress, press the "BACK" button. Some unprotected frames (files) will be left unerased.

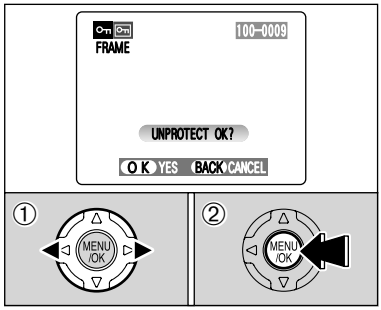
- Even if you stop the procedure immediately, some frames (files) will be erased.

1


DISP
MENU
/OK

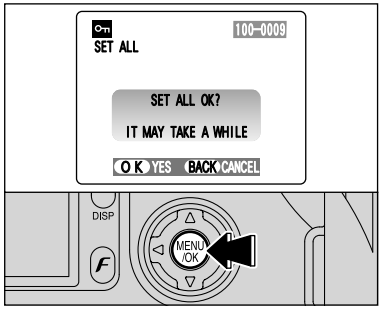

MENU
/OK
MENU
/OK
PROTECT
RESET ALL
SET ALL
FRAME


100-0009
FRAME
PROTECT OK?
OK YES BACK CANCEL
MENU
/OK
MENU
/OK



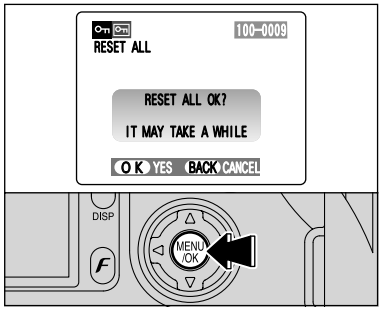
FRAME RESET

① Press "◀" or "▶" to select the protected frame (file).
② Press the "MENU/OK" button to unprotect the displayed frame (file).



SET ALL

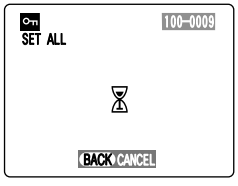
Press the "MENU/OK" button to protect all the frames (files).



RESET ALL

Press the "MENU/OK" button to unprotect all the frames (files).

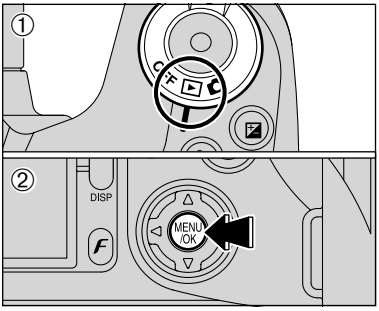
◆ To stop the procedure mid-way ◆



If the images are very large, protecting or unprotecting all the frames (files) may take some time.
If you want to take a picture or recording a movie during the procedure, press the "BACK" button. To then return to protecting or unprotecting all the frames (files), start the procedure on P.73 from step **1**.

PLAYBACK MENU AUTO PLAY (AUTOMATIC PLAYBACK)

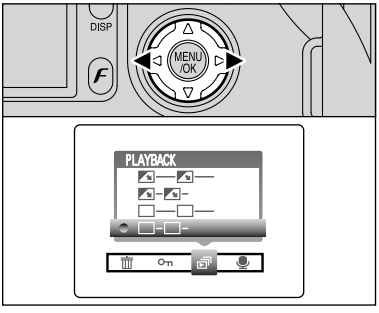
1



① Set the Power switch to "▶".
② Press the "MENU/OK" button to display the menu on the screen.

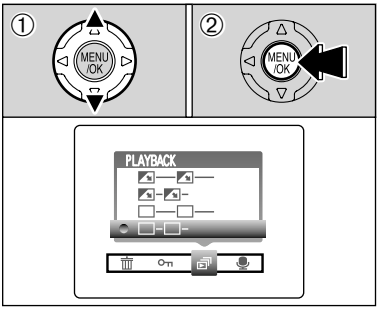
- The Power save function does not operate during playback.
- Movie starts automatically. When the preview movie or movie ends, playback moves on to the next frame.

2



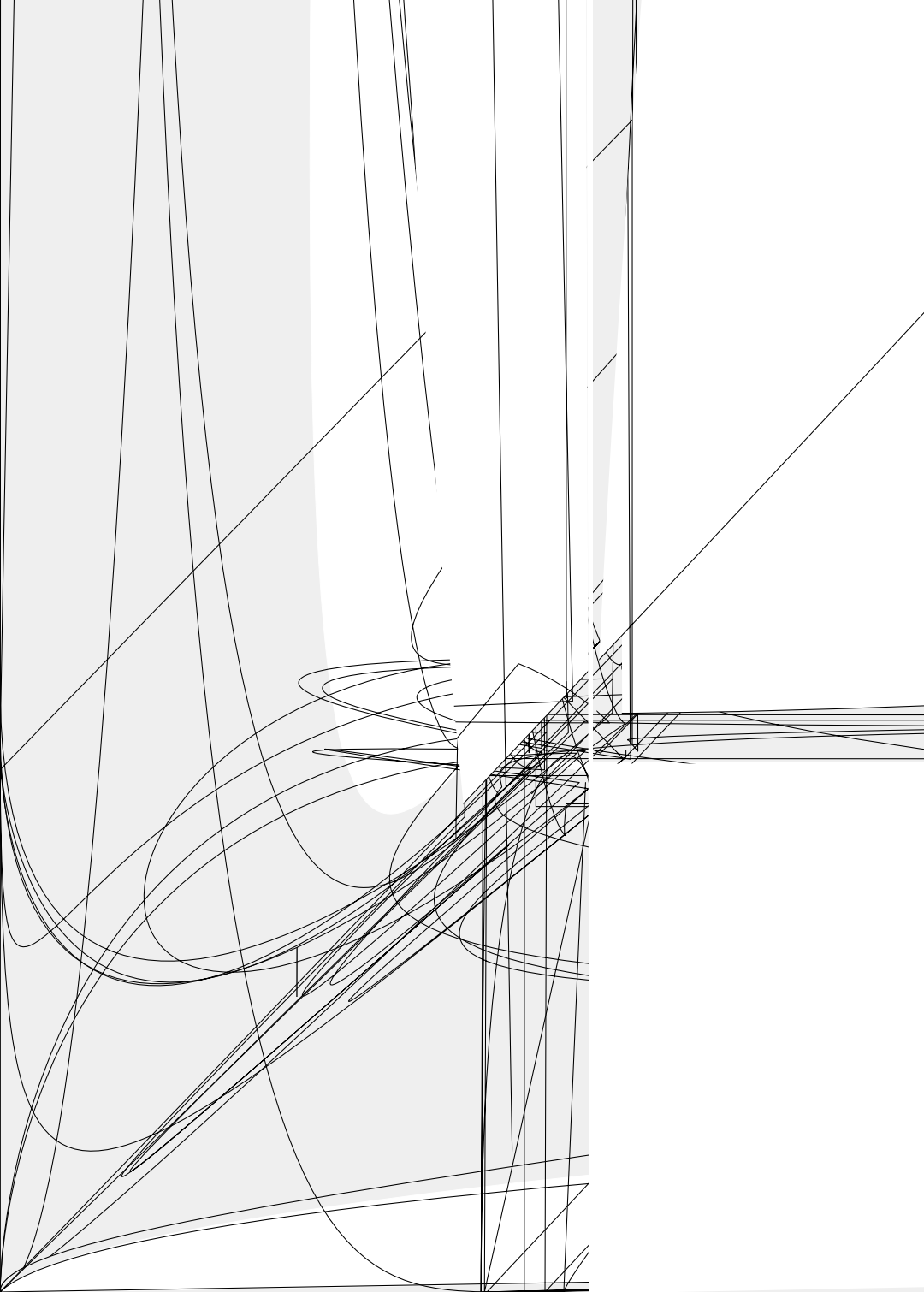
Press "◀" or "▶" to select "🖼" PLAYBACK.

3

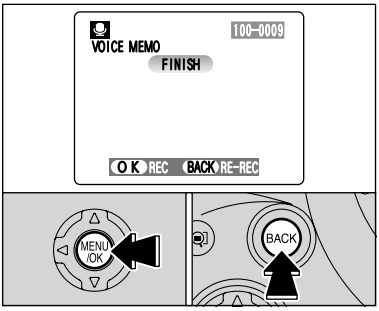


① Press "▲" or "▼" to select the playback interval and the type of image transition.
② Press the "MENU/OK" button. The image frames are advanced and played back.

- Pressing the "DISP" button once during playback causes the playback frame number to appear on the screen.
- To interrput "🖼" PLAYBACK, press the "BACK" button.



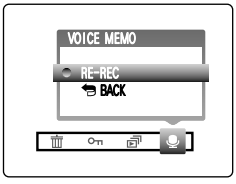
5



After 30 seconds of recording, "FINISH" appears on the screen.

To finish: Press the "MENU/OK" button.
To re-record your comment: Press the "BACK" button.

◆ When the image already has a voice memo ◆

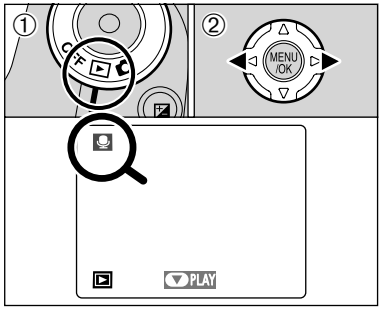


If you select an image that already has a voice memo, a screen appears in which you can select whether or not to re-record the memo.

When the "PROTECTED FRAME" message appears, unprotect the frame.

PLAYING BACK VOICE MEMOS

1

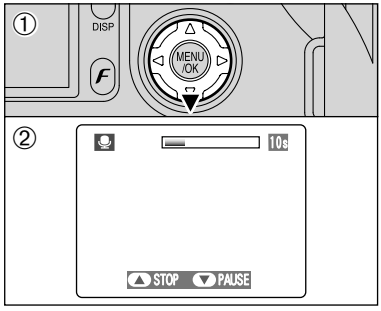


① Set the Power switch to "▶".
② Press "◀" or "▶" to select an image file that has a voice memo.

Voice memos can not be played back using multi-frame playback. Use the "DISP" button to select single-frame playback.

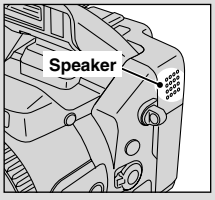
Indicated by the "🎙" icon.

2



① Press "▼" to play the voice memo.
② The playback time appears on the screen along with a progress bar.

When the sound is difficult to hear, adjust the volume (➡P.22).



Take care not to block the speaker.

■ Playing back voice memos

	Control	Description
Playback		The voice memo stops when playback ends.
Pause/Resume		Pauses the voice memo during playback. Press "▼" again to resume playback.
Stop		Stops playback. ✻ Press "◀" or "▶" while voice memo playback is stopped to go back to the previous file or advance to the next file respectively.
Fast forward/ Rewind		Press "◀" or "▶" during playback to skip forwards or backwards through the voice memo. ✻ These buttons do not function while playback is paused.

◆ Compatible voice memo files ◆

You can use your FinePix S20 Pro to playback voice memos recorded on this camera or voice memos up to 30 seconds long recorded onto a media using a FUJIFILM digital camera.

HOW TO SPECIFY PRINT OPTIONS (DPOF)

DPOF stands for Digital Print Order Format and refers to a format that is used for recording printing specifications for images shot using a digital camera on media such as an **xD-Picture Card** and Microdrive. The recorded specifications include information on which frames are to be printed.

This section gives a detailed description of how to order your prints with the FinePix S20 Pro.
On the FinePix S20 Pro, you can specify only one print per image in the DPOF settings.

* Note that some printers do not support date and time imprinting or specification of the number of prints.
* Note that the warnings shown below may be displayed while you are specifying the prints.

(DPOF SPECIFIED. ERASE OK ?)
(DPOF SPECIFIED. ERASE ALL OK ?) (➡P.72)

When you erase the image, the DPOF setting for that image is deleted at the same time.

(RESET DPOF OK ?) (➡P.80)

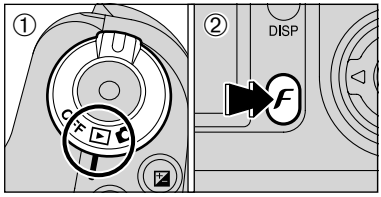
When you insert a media that contains images specified for printing on by another camera, those print specifications are all reset and replaced by the new print specifications.

[DPOF FILE ERROR] (➡P.111)

Up to 999 images can be specified on the same media.

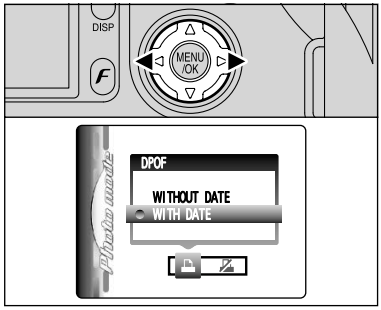
DPOF SET FRAME

1

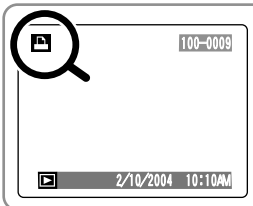


① Set the Power switch to "▶".
② Press the (F) button.

2

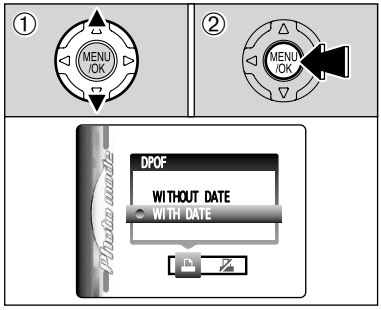


Press "◀" or "▶" to select "🖶" DPOF.



"🖶" appears on the screen during playback when the image has specified with DPOF setting.

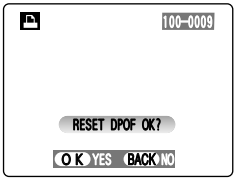
3



① Press "▲" or "▼" to select "WITH DATE" or "WITHOUT DATE". Selecting "WITH DATE" will cause the date to be imprinted on your prints.
② Press the "MENU/OK" button.

By selecting the "WITH DATE" setting, you can have the date imprinted on your shots when you use the Print Service or a DPOF-compatible printer (depending on the printer specifications, the date may not be printed in some cases).

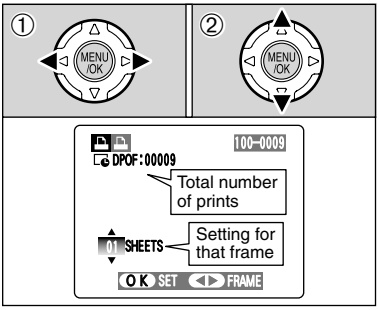
◆ When DPOF settings were specified on another camera ◆



When the data includes a frame (file) with DPOF setting that were specified on another camera, "RESET DPOF OK?" appears.
Pressing the "MENU/OK" button (or (F) button) erases all of the DPOF settings already specified for each frame (file). You must then specify the DPOF setting for each frame (file) again.

Press the "BACK" button to leave the previous settings unchanged.

4



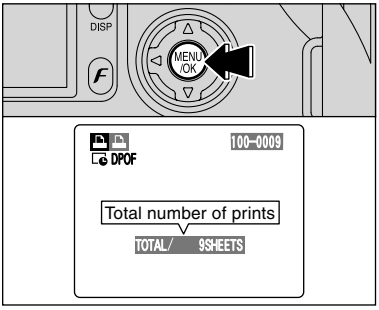
① Press "◀" or "▶" to display the frame (file) for which you want to specify DPOF settings.
② Press "▲" or "▼" to set a value up to 99 as the number of copies of the frame (file) to be printed. For frames (files) that you do not want printed, set the number of prints to 0 (zero).

To specify more DPOF settings, repeat steps ① and ②.

- Prints of up to 999 image frames (files) can be ordered on the same media.
- DPOF settings cannot be specified for movies or CCD-RAW files.

Pressing the "BACK" button during the settings, all the new settings are cancelled. If there were previous DPOF settings, only the modifications are cancelled.

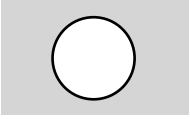
5



Always press the "MENU/OK" button (or (ƒ) button) to complete the settings.
Pressing the "BACK" button, no DPOF settings are specified.

◆ Canceling a frame ◆

To cancel the DPOF setting for a frame you have specified (cancel frame), perform steps **1** to **3** and then:
①Press "◀" or "▶" to select the frame (file) with the DPOF setting you want to cancel.
②Set the number of prints to 0(zero).
To cancel the DPOF setting for another frame (file), repeat steps ① and ②.
Press the "MENU/OK" button (or (ƒ) button) to complete the settings.

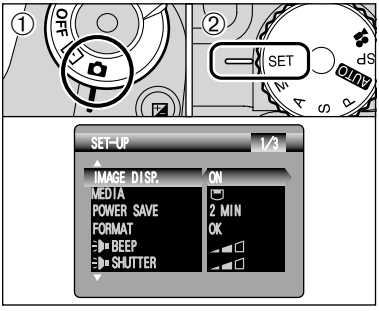


■ SET-UP menu options

Settings	Display	Factory default	Explanation
IMAGE DISP.	ON/OFF/PREVIEW	ON	Use this option to specify whether the Preview images (the photographed image) is displayed after taking a shot. See P.84 for details.
MEDIA	(**xD-Picture Card**) (Microdrive)		Sets the media to be used when an **xD-Picture Card** and Microdrive are loaded in the camera.
POWER SAVE	2 MIN/5MIN/OFF	2 MIN	Use this option to reduce the camera's power consumption and to subsequently turn the camera off when not being used. See P.86 for details.
FORMAT	OK	–	Erases all files. See P.86 for details.
BEEP	OFF/1/2/3	2	Sets the volume of the tone emitted when the camera controls are used.
SHUTTER	OFF/1/2/3	2	Sets the volume of the sound emitted when the shutter operates.
DATE/TIME	SET	–	Use this option to correct the date or time. See P.16 for details.
ADAPTER	YES/NO	NO	Select this setting when a conversion lens is used. See P.87 for details.
FRAME NO.	CONT./RENEW	CONT.	Specifies whether frame numbers are assigned consecutively from previous numbers or begin again. See P.88 for details.
CCD-RAW	OFF/ON	OFF	Sets the image quality to CCD-RAW. Because no image processing is performed on the camera for CCD-RAW images, images must be processed on a computer.
言語/LANG.	日本語/ENGLISH/ FRANCAIS/DEUTSCH/ ESPAÑOL/中文	ENGLISH	Use this setting to specify the language used for screen display.
VIDEO SYSTEM	NTSC/PAL	–	Specifies whether video output is set to NTSC or PAL.
USB MODE	/PC		Selects the function when the camera is connected to a PC. See P.98 for details.
1394 MODE	/1394		Download images to a computer or use third-party photo-shooting software to take pictures from a computer. See P.98 for details.
DISCHARGE	OK	–	Discharges Ni-MH batteries. See P.109 for details.
RESET	OK	–	Resets all the camera settings (other than the DATE/TIME, LANG. and VIDEO SYSTEM) to the factory default values set at shipment. A confirmation message appears when you press "▶". To reset the camera settings, press the "MENU/OK" button again.

SET USING THE SET-UP SCREEN

1

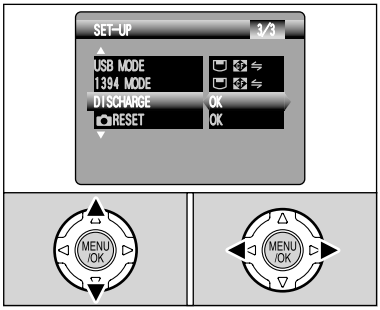


① Set Power switch to "".
② Set the Mode dial to "SET" to display the SET-UP menu.

Always turn the camera off when replacing the batteries. Opening the battery cover or disconnecting the AC power adapter without turning the camera off may cause the camera settings to revert to the factory default values set at shipment.

Continued

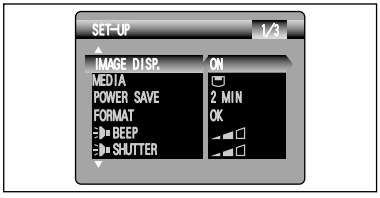
2



Press "▲" or "▼" to select a menu option and then press "◀" or "▶" to change the setting.

Press "▶" for "FORMAT", "DATE/TIME", "DISCHARGE" or "RESET".

IMAGE DISPLAY



Use this setting to specify whether images are displayed after shooting.

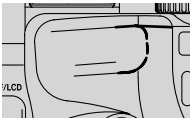
In Long-period continuous shooting, the images are not displayed.

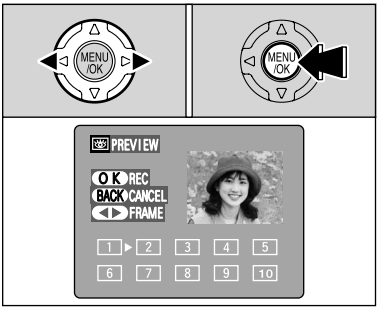
In top10-frame continuous shooting, and final10-frame continuous shooting, the images are displayed for a set time before being recorded even when "OFF" is selected here.

ON : Images are displayed for 2 seconds and then automatically recorded.
OFF : Images are recorded without being displayed.
PREVIEW: The results of your shot are shown as a preview (for image checking) and you can then choose whether or not to record the image.
- To record the image: Press the "MENU/OK" button.
- To discard the image: Press the "BACK" button.

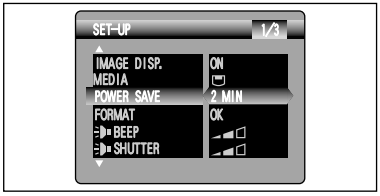
The preview zoom can be also used.

The color tones in images displayed when "ON" is selected may differ slightly from those in the images actually recorded.



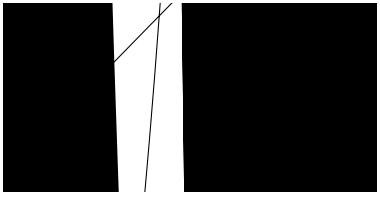

MENU
/OK
MENU
/OK
PREVIEW
OK REC
BACK CANCEL
FRAME
1
2
3
4
5
6
7
8
9
10

POWER SAVE SETTING (low power setting)



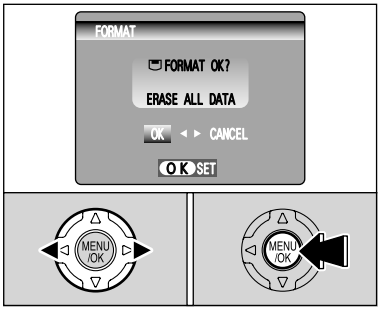
When this function is enabled, the screen temporarily turns off (Sleep mode) and the indicator lamp (green) blinks at 1-second intervals to save power if the camera is not used for 30 seconds. If the camera remains unused for an additional interval (2 minutes or 5 minutes), it is turned off. Use this function when you want to get the maximum possible running time from your batteries.

- The Power save setting is disabled during automatic playback, during rechargeable battery discharging and when a USB connection is being used.

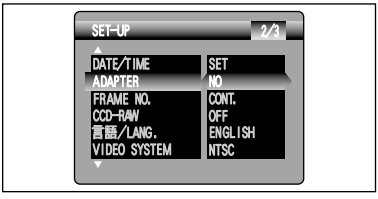


When the camera is in Sleep mode, pressing the Shutter button down halfway wakes the camera up.

- Pressing any other button as well as the Shutter button wakes the camera up.



ADAPTER SETTING



YES: Select this setting when using a conversion lens. When selecting this setting, the "◑" icon appears.

NO : Select this setting when not using a conversion lens.

Selecting the wrong setting could prevent the camera from focusing successfully.

◆ Overview of the conversion lens/adapter ring ◆

Wide conversion lens WL-FX9/WL-FX9B

This is a set that includes a wide conversion lens and adapter ring and converts the camera's focal length by 0.79 times (equal to a 28 mm wide-angle lens). This set also allows you to use commercially available filters.

- **Wide conversion lens specifications**

  Magnification : 0.79×
  Lens configuration : 3 lenses in 3 groups
  Dimensions : 70 mm (2.76 in.) dia. × 32 mm (1.26 in.)
  Mass (Weight) : Approx. 185 g (6.5 oz.)
  Accessories : Adapter Ring AR-FX9 (see below for specifications), Lens caps (front and rear), Lens pouch

Use the lens at the wide-angle zoom setting (equal to 28 mm-46 mm).
When using the lens at the telephoto setting, the image is distorted and not be in focus.
The wide conversion lens and built-in flash cannot be used together.

Teleconversion lens TL-FX9/TL-FX9B

This is a set that includes a teleconversion lens and adapter ring. This accessory increases the focal length of your lens by 1.5 times (equal to a 315 mm telephoto lens) without changing its F-stop value.

- **Teleconversion lens specifications**

  Magnification : 1.5×
  Lens configuration : 3 lenses in 3 groups
  Dimensions : 65 mm (2.56 in.) dia. × 55 mm (2.17 in.)
  Mass (Weight) : Approx. 100 g (3.5 oz.)
  Accessories : Adapter Ring AR-FX9 (see below for specifications), Lens caps (front and rear), Lens pouch

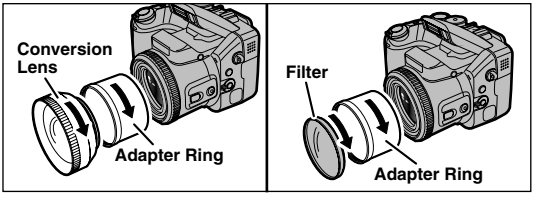
The TL-FX9/TL-FX9B should only be used for telephoto shots where eclipsing does not occur. Eclipsing occurs at wide-angle settings.
The built-in flash cannot be used with the teleconversion lens.

The adapter ring is required for using commercially available filters.

- **Adapter ring specifications**

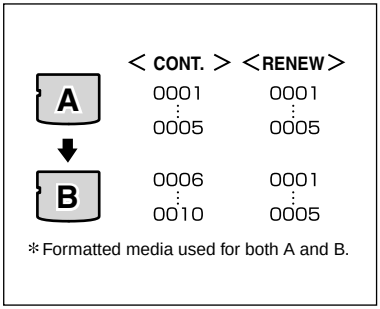
  Compatible filters : 55 mm-diameter commercial available filters
  Dimensions : 58 mm (2.28 in.) dia. × 39 mm (1.54 in.)
  Mass (Weight) : Approx. 30 g (1.1 oz.)

Do not use more than one filter at a time.



Mount the Adapter Ring, Conversion Lens and commercially available filters by screwing them on in the direction of the arrow.

FRAME NO. (frame number storage)



✻Formatted media used for both A and B.

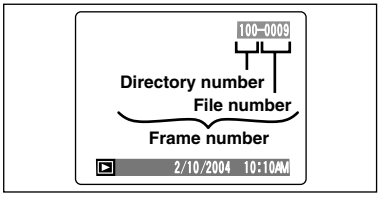
Specifies whether frame numbers are assigned consecutively from previous numbers or begin again.

CONT. : Pictures are stored beginning from the highest file number stored on the last media used.

RENEW: Pictures are stored on each media beginning with a file number "0001".

Setting this function to "CONT." makes file management easier as it ensures that file names are not duplicated when images are downloaded to a PC.

- When the camera settings are "RESET", the frame number setting ("CONT." or "RENEW") is changed to "CONT." and the frame number itself does not return to "0001".
- When the media already contains image files with file numbers higher than the highest file number on the last media, images are stored beginning from the highest file number on the current media.



The file number can be checked by viewing the image. The last 4 digits of the 7-digit number in the top right corner of the screen are the file numbers, while the first 3 digits show the directory number.

- When changing the media, always turn the camera off before opening the slot cover. Opening the slot cover without turning the camera off may cause the Frame number memory to not function.
- File number runs from 0001 to 9999. Once 9999 is exceeded, the directory number changes from 100 to 101. The maximum number is 999–9999.
- The displayed frame number may differ for images photographed on other cameras.
- When the "FILE NO. FULL" message appears, see P.111.

CCD-RAW

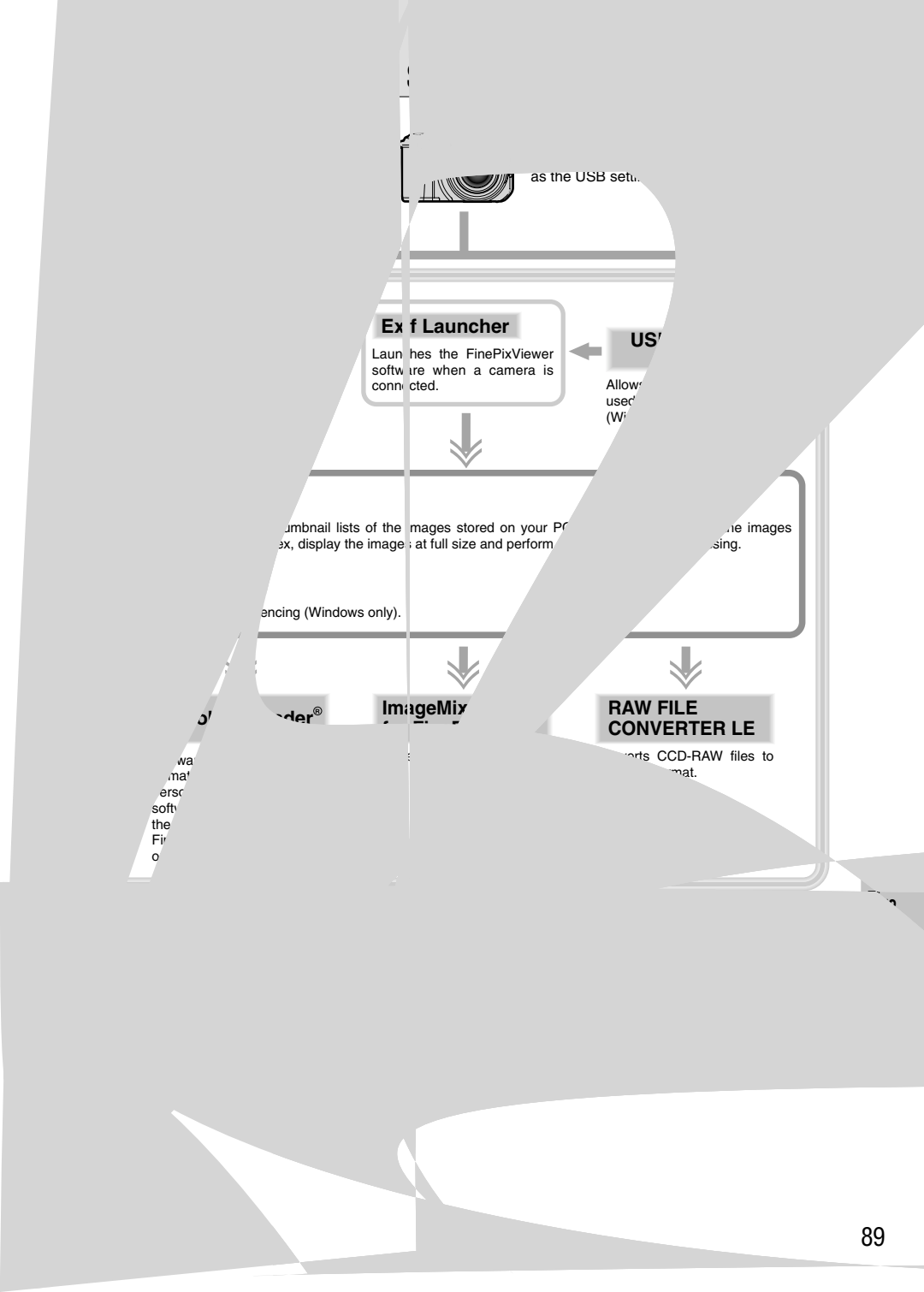
When CCD-RAW is set to ON, the camera saves captured images as CCD-RAW file format instead of JPEG.

- Use the bundled RAW FILE CONVERTER LE software to convert CCD-RAW files into TIFF-8bits files by manufacturer's standard parameters.
- Use the optional RAW FILE CONVERTER EX software to convert CCD-RAW files into TIFF-16 bits files by custom's parameter settings.

✻ To rebuild images, FinePixViewer (on the bundled CD-ROM) must be installed on your computer.

■ The functions listed below cannot be used in CCD-RAW mode.

During shooting	Digital zoom, Continuous shooting and FinePix Photo mode (image quality, sensitivity (ISO 800 and 1600) and FinePix COLOR) are unavailable.
During playback	Playback image quality is fixed at [illegible]5(1c 1s fixed a9)Tj /T1_7 188.68Tc 8.440103 Tm (ng)Tj /T1_3 121_5


as the USB setu
Launches the FinePixViewer software when a camera is connected.
Allow
used
(Wi
mbnail lists of the mages stored on your PC
ex, display the image at full size and perform
sing.
encing (Windows only).
ImageMix
RAW FILE CONVERTER LE
rts CCD-RAW files to
mat.

5.2 INSTALLATION ON A Windows PC

Pre-installation checklist

To run this software, you must have the hardware and software described below. Check your system before you begin the installation.

Compatible PCs	IBM PC/AT or compatible*1
Operating System	Windows 98 (including the Second Edition) Windows Millennium Edition (Windows Me) Windows 2000 Professional*2 Windows XP Home Edition*2 Windows XP Professional*2
CPU	200 MHz Pentium or better (800 MHz Pentium Ⅲ or better recommended for Windows XP)
RAM	64 MB minimum (128 MB minimum for Windows XP) Minimum 256 MB when RAW FILE CONVERTER LE is used
Hard disk space	Amount required for installation: 450 MB minimum Amount required for operation: 600 MB minimum (When ImageMixer VCD2 for FinePix: 2 GB or better) Minimum 1 GB when RAW FILE CONVERTER LE is used
Display	800 × 600 pixels or better, 16-bit color or better (When ImageMixer VCD2 for FinePix: 1024 × 768 or better)
Internet connection*3	• To use the FinePix Internet Service or mail attachment function: An Internet connection and e-mail transmission software • Connection speed: 56 k or better recommended
Sound functions*4	Speakers, microphone and sound card

*1 Models with a USB interface as a standard feature and one of the above operating systems preinstalled.
*2 When you install the software, log in using a system administrator account (e.g. “Administrator”).
*3 Required to use the FinePix Internet Service and videoconferencing. The software can still be installed even if you do not have an Internet connection.
*4 Sound functions are required for videoconferencing.

◆ Notes ◆

- Connect the camera directly to the computer using the USB cable (mini-B). The software may not operate correctly when you use an extension cable or connect the camera via a USB hub.
- When your computer has more than one USB port, the camera can be connected to either port.
- Push the USB connector fully into the socket to ensure that it is securely connected. The software may not operate correctly if the connection is faulty.
- Additional USB interface board is not guaranteed.
- Windows 95 and Windows NT cannot be used.
- Operation is not guaranteed on home-built computers or on computers running updated operating system software.
- If your Internet connection is via a router or via a LAN (connecting machines on the LAN to the Internet), you cannot use videoconferencing.
- If you are using Windows XP and you tick the “Protect my computer and network by limiting or preventing access to this computer from the Internet” checkbox in the Internet connection firewall settings, videoconferencing cannot be used.
- When you reinstall or remove FinePixViewer, the Internet menu and your user ID and password for the FinePix Internet Service are deleted from your computer. Click the [Register now] button, enter your registered user ID and password and download the menu again.

Do not connect the camera to your PC until the software installation is completed.

1 Install FinePixViewer as instructed in the Quick Start Guide.

◆ Launching the installer manually ◆

① Double-click the “My Computer” icon.
✻ Windows XP users should click “My Computer” in the “Start” menu.
② Right-click “FINEPIX” (CD-ROM drive) in the “My Computer” window and select “Open”.
③ Double-click “SETUP” or “SETUP.exe” in the CD-ROM window.

✻ The way file names are displayed differs as described below depending on your computer settings.
- File extensions (3-letter suffixes indicating the file type) may be shown or hidden. (e.g. Setup.exe or Setup)
- Text may be shown normally or all in uppercase (e.g. Setup or SETUP).

◆ Installing other applications ◆

You may see messages for installing NetMeeting, ImageMixer VCD2 for FinePix and WINASPI. Install these applications as directed by the on-screen instructions. The installation screens for these applications are displayed as required.

2 After restarting the PC, install DirectX as directed by the on-screen instructions and restart your PC again. If the latest version of DirectX is already installed on your PC, this installation is not performed.

3 After restarting the PC, the “Installation of the FinePixViewer has been completed” message appears.

5.3 INSTALLATION ON A Mac OS 9.0 TO 9.2

Pre-installation checklist

To run this software, you must have the hardware and software described below. Check your system before you begin the installation.

Compatible Mac	Power Macintosh G3*1, PowerBook G3*1, Power Macintosh G4, iMac, iBook, Power Macintosh G4 Cube or PowerBook G4
Operating System	Mac OS 9.0 to 9.2.2*2
RAM	64 MB minimum*3 Minimum 256 MB when RAW FILE CONVERTER LE is used (When ImageMixer VCD2 for FinePix: 128 MB or better)
Hard disk space	Amount required for installation: 400 MB minimum Amount required for operation: 600 MB minimum (When ImageMixer VCD2 for FinePix: 2 GB or better) Minimum 1 GB when RAW FILE CONVERTER LE is used
Display	800 × 600 pixels or better, at least 32,000 colors (When ImageMixer VCD2 for FinePix: 1024 × 768 or better)
Internet connection*4	• To use the FinePix Internet Service or mail attachment function An Internet connection and e-mail transmission software • Connection speed: 56 k or better recommended
Sound functions	Speakers and microphone

*1 Models with a USB port as a standard feature
*2 This software does not run correctly in the Mac OS X Classic environment.
*3 Turn virtual memory on if necessary.
*4 Required to use the FinePix Internet Service. The software can still be installed even if you do not have an Internet connection.

◆ Notes ◆

- Connect the camera directly to the Macintosh using the USB cable (mini-B). The software may not operate correctly if you use an extension cable or connect the camera via a USB hub.
- Push the USB connector fully into the socket to ensure that it is securely connected. The software may not operate correctly if the connection is faulty.
- Additional USB interface board is not guaranteed.
- On Macintosh computers, allocate at least 400 MB of virtual memory when RAW FILE CONVERTER LE is used. If other applications will be used at the same time, allocate the additional amount required for those applications also.

◆ Enable file exchange ◆

Check whether File Exchange is active.
To use a media that is supported by the camera, the File Exchange utility supplied with Mac OS must be running.

1 Turn on your Macintosh and start up Mac OS 9.0 to 9.2.

Do not connect the camera to your Macintosh until the software installation is completed.

2 Select the Extension Manager in the Control Panel and check that the File Exchange check box is ticked. If not, click in the box so that ☒ appears and then restart your Macintosh.

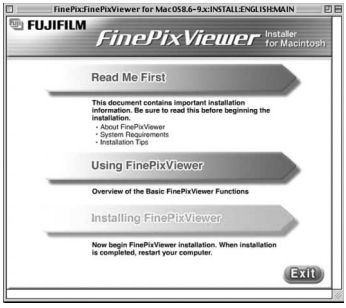
3 When inserting the enclosed CD-ROM into the CD-ROM driver, the “FinePix” window opens.

If the “FinePix” window does not open, double-click the CD-ROM icon.

4 Double-click “Installer for MacOS9” to launch the Installer.

5 The Installer setup screen appears. Click the [Installing FinePixViewer] button.

For more information on what is installed, click the [Read Me First] button and [Using FinePixViewer] button.

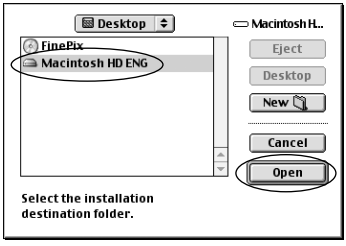


6 A message appears asking whether you want to continue with the installation. Click the [OK] button.

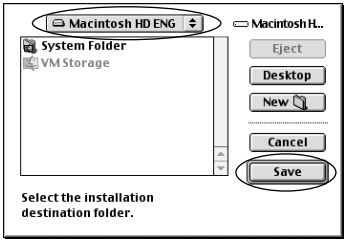
7 The User License Agreement for this software appears. Read the agreement carefully and then, if you agree to the terms of the Agreement, click the [Agree] button. If you click the [Disagree] button, the software is not installed.

8 Select the folder you want to install FinePixViewer.

① Click the [Open] button to open the installation destination folder.



② Click the [Save] button.

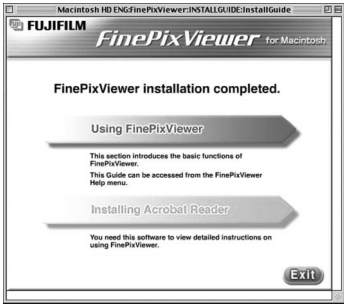


9 Install ImageMixer VCD2 for FinePix as directed by the on-screen instructions.

Continued

5.3 INSTALLATION ON A Mac OS 9.0 TO 9.2

10 After restarting the Macintosh, the “FinePixViewer installation completed” message appears. Click “Using FinePixViewer” to view the basic FinePixViewer functions.



11 To install Acrobat Reader, click “Install Acrobat Reader”.

Install Adobe Systems’ Acrobat Reader software to read the FinePixViewer User’s Guide (PDF). If the latest version already has been installed, this step is not required.

12 Proceed with the installation as directed by the on-screen instructions.

◆ To install Acrobat Reader later... ◆

① Double-click the “FinePix” CD-ROM to open the CD-ROM window.
② Double-click “FinePixViewer for Mac OS 9” ➡ “Acrobat Reader” ➡ “English” folder.
③ Double-click “English Reader Installer”.
④ Proceed with the installation as directed by the on-screen instructions.

5.4 INSTALLATION ON A Mac OS X

Pre-installation checklist

■ Hardware and software requirements

To run this software, you must have the hardware and software described below. Check your system before you begin the installation.

Compatible Mac	Power Macintosh G3*1, PowerBook G3*1, Power Macintosh G4, iMac, iBook, Power Macintosh G4 Cube, or PowerBook G4
Operating System	Mac OS X (compatible with version 10.1.5 to 10.3.1)
RAM	192 MB minimum Minimum 256 MB when RAW FILE CONVERTER LE is used
Hard disk space	Amount required for installation: 200 MB minimum Amount required for operation: 400 MB minimum (When ImageMixer VCD2 for FinePix: 2 GB or better) Minimum 1 GB when RAW FILE CONVERTER LE is used
Display	800 × 600 pixels or better, at least 32,000 colors (When ImageMixer VCD2 for FinePix: 1024 × 768 or better)
Internet connection*2	• To use the FinePix Internet Service or mail attachment function An Internet connection and e-mail transmission software • Connection speed: 56 k or better recommended

*1 Models with a USB port as a standard feature
*2 Required to use the FinePix Internet Service. The software can still be installed even if you do not have an Internet connection.

◆ Notes ◆

- Connect the camera directly to the Macintosh using the USB cable (mini-B). The software may not operate correctly if you use an extension cable or connect the camera via a USB hub.
- Push the USB connector fully into the socket to ensure that it is securely connected. The software may not operate correctly if the connection is faulty.
- Additional USB interface board is not guaranteed.
- On Macintosh computers, allocate at least 400 MB of virtual memory when RAW FILE CONVERTER LE is used. If other applications will be used at the same time, allocate the additional amount required for those applications also.

■ Functions not supported in FinePixViewer for Mac OS X

Function	Comment
PC Camera	Not supported.
Online updating	Information on updates can not be obtained using [Support] in the Internet menu.

5.4 INSTALLATION ON A Mac OS X

FinePixViewer and RAW FILE CONVERTER LE are installed on Mac OS X.

1 Turn your Macintosh on and start up Mac OS X. Do not launch any other applications.

2 Insert the enclosed CD-ROM into the CD-ROM drive. The “FinePix” window opens.

If the “FinePix” window does not open, double-click the CD-ROM icon.

3 Double-click “Installer for MacOS X”.

4 Click the “ ” icon.
(This operation is not required on version 10.2 (or later).)

5 Enter the administrator name and password. Then click the [OK] button.

The window displayed in Mac OS X is slightly different.

6 Click the [Continue] button.

7 Quit any other programs that are running and then click the [Continue] button.

8 Click the [Continue] button in the “Software License Agreement” window.

9 Click the [Continue] button.

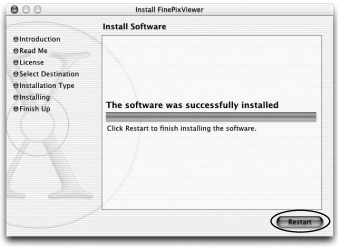
The software is installed in the “Applications” folder on the disk you want to install in.

10 Click the [Install (upgrade)] button.

11 Enter your administrator name and password and then click the [OK] button.

12 An installation progress window appears. (Installation may take several minutes)

13 When you have completed the installation, click the [Restart] button.



14 Launch “Image Capture” from the “Applications” folder.

15 Change the ImageCapture settings.

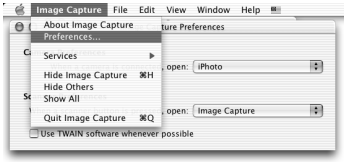
(OS X 10.1.5)

(1) Select “Other...” from “Hot plug Action”.

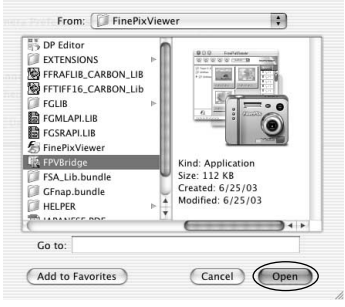
(OS X 10.2 or later)

(1) Select “Preferenes...” from the “Image Capture” menu.

(2) Select “Other...” from “When a camera is connected, open”.



16 Select “FPVBridge” from “FinePixViewer” folder in the “Applications” folder and click the “Open” button.



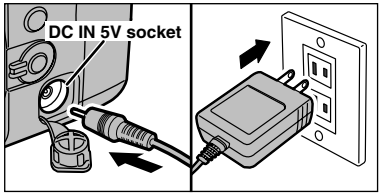
17 Quit ImageCapture.

6.1 CAMERA CONNECTION

6.1.1 Using the AC power adapter (sold separately)

Always use a FUJIFILM AC Power Adapter AC-5VH/AC-5VHS (➡P.106).
Use the AC power adapter to avoid losing power at inconvenient times, such as when downloading photographed images to the computer. Using the AC power adapter also allows you to take pictures and play back images without worrying about depleting the batteries.

- Only connect or disconnect the AC power adapter when the camera is off.
  Connecting or disconnecting the AC power adapter while the camera is on temporarily interrupts the power supply to the camera, so that images or movies being shot at the time are not recorded. Failing to turn the camera off first can also result in damage to the media or malfunctions during PC connection.



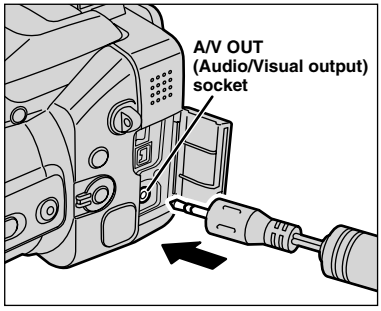
Check that the camera is off. Plug the AC power adapter connector into the “DC IN 5V” socket and then plug the AC power adapter into the power outlet.

- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- The shape of the plug and socket-outlet depends on the country of use.
- See P.108 for notes on using the AC power adapter.

Connecting the AC power adapter does not allow you to charge the Ni-MH batteries. Use the optional charger (➡P.106) to charge the Ni-MH batteries.

6.1.2 Connecting to a TV

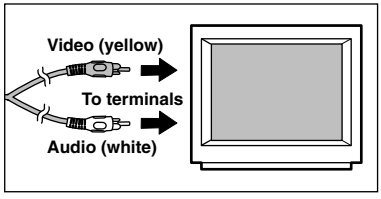
1



Turn off the camera and TV. Plug the included A/V cable (provided with the camera) into the “A/V OUT” (Audio/Visual output) socket.

- When there is a power outlet available, connect the AC Power Adapter AC-5V.

2



Plug the other end of the cable into the video input socket on the TV. Then turn the camera and TV on and take pictures or play back images as you would normally.

- Refer to the instructions provided with your TV for more information on video input for your TV.

6.1.3 Connecting to a computer

The “Connecting to a computer” section explains how to connect the camera to your computer using the USB cable (IEEE 1394 cable) and describes the functions you can use once the camera and computer are connected.

If the power cuts out during data transmission, the data will not be transmitted correctly. Always use the AC power adapter when connecting the camera to a computer.

Refer to Section 5 the first time you connect the camera to your computer.
Install the software first. Do not connect the camera with the computer before installing all the software.

CD-ROM
(Software for FinePix SX)

- If your PC supports USB 2.0 (High-speed USB), data can be transferred faster than with previous USB versions.

DSC (Mass storage device) mode

This mode provides a simple way to read images from a media and store images on to a media. The USB (FireWire) or IEEE 1394 interface connection can be used for high-speed file transfer (➡P.100).
To connect via an IEEE 1394 port, check that the interface is OHCI compliant and then refer to the table below to check whether it is supported by your operating system.

■ Operating system compatibility chart (Windows)

○: Can be connected ×: Cannot be connected

OS / Connection type	Windows 98	Windows 98 SE (Second Edition)	Windows Me (Millennium Edition)	Windows 2000 (Professional)	Windows XP
IEEE 1394	×	○*	○	○	○

* Select Windows Update from the Start button menu and update the 1394 device driver (Your system must be capable of connecting to the Internet).

■ Operating system compatibility chart (Macintosh)

○: Can be connected ×: Cannot be connected

OS / Connection type	Mac OS 8.6	Mac OS 9.0.4	Mac OS 9.1	Mac OS 9.2.1	Mac OS X
IEEE 1394	×	×*	○	○	○

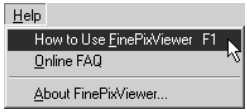
* Cannot be used even when installed as FireWire interface standard feature, but can be used by downloading and installing the free update to Contact Apple Computers (http://www.apple.com) for information on software updates.

PC PC CAM (PC camera) mode

This function allows you to conduct videoconferencing sessions between PCs connected to the Internet.

- Videoconferencing ("PictureHello") is not supported on Macintosh computers.
- Connection is only possible with a FUJIFILM camera equipped with a "PC Camera" function.

For more information on using the software, refer to "How to use FinePixViewer" in the HELP menu which was installed from the CD-ROM.



Change between "DSC" and "PC" in the camera's SET-UP screen.

IEEE 1394 photography function

For information on taking pictures using IEEE 1394, refer to the Hyper Utility Software HS-V2 Ver.2.0 (or later) Help menu.

sing the USB

to “▶”.

le provided with your camera. If you use
camera may not work correctly.
t the USB cable (mini-B) or IEEE 1394 cable is
orrectly and is pushed in.
onnect the USB cable (mini-B) and the IEEE 1394
t the same time.
lect your camera and a PC with the IEEE 1394 cable
ly when the Power switch is set to “▶”.
If the Power switch is set to “📷”, the lens of the camera will be extended.

3 Set a computer

Windows 98/98 SE/Me/2000 Professional/Macintosh

The Windows CD-ROM may also be required during installation. In this event, change CD-ROMs as directed by the on-screen instructions.

- FinePixViewer starts up.

✻ Screen for Windows 98 SE

- A removable disk icon appears and you can use your PC to transfer files to and from the camera.

If the above operations do not occur, you do not have the required software programs or drivers installed on your PC. Complete the required PC setup procedures. Then reconnect the camera to your PC.

Windows XP

① The “Found New Hardware” message appears in the bottom-right corner of your screen. This message will close when the settings are completed. No action is required.

This step is not required for subsequent connections.

② Specify the settings in the “AutoPlay” dialog box.

- **When FinePixViewer is included in the list of actions to perform**
  Select “Viewing images using FinePixViewer” and then select the “Always do the selected action” checkbox. (This checkbox may not be shown in some cases.)
  Click the [OK] button to launch FinePixViewer.
- **When FinePixViewer is not included in the list of actions to perform**
  Select “Take no action” and then select the “Always do the selected action” checkbox. (This checkbox may not be shown in some cases.)
  Click the [OK] button and launch FinePixViewer manually.

③ A new removable disk icon appears in the “My Computer” window.

◆ Regarding the Icons ◆

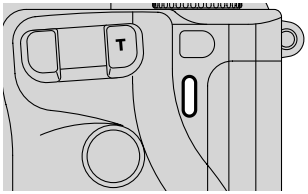
The next time you connect the camera, the removable disk drive icon and name change to the “FinePix” icon and name.

Proceed to “USING FinePixViewer” on P.103.

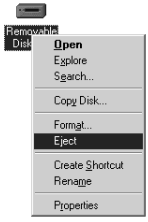
Continued

6.1.4 Disconnecting the camera

For a DSC connection, proceed to step **2**. For a PC CAMERA connection, proceed to step **3**.



Windows 98/98 SE



② Left-click the Eject icon in the taskbar and select "USB Disk".

✻ Screen for Windows Me

③ The menu option shown below appears. Click on this option.

✻ Screen for Windows Me

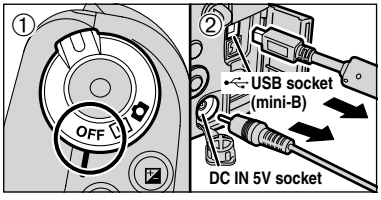
④ The "Safe To Remove Hardware" message box appears. Click the [OK] button or the close button.

Macintosh

Drag the "Removable drive" icon on the desktop to the Trash.

When you drag the icon to the Trash, "REMOVE OK" appears on the camera's screen.

3



① Turn the camera off.
② Unplug the USB cable (mini-B) from the camera.

6.2 USING FinePixViewer

6.2.1 Mastering FinePixViewer

For all information on FinePixViewer functions, refer to “How to Use FinePixViewer” in the Help menu for details.

◆ **Macintosh** ◆

● **To read “How to Use FinePixViewer”...**
You must install Adobe Systems’ Acrobat Reader. See P.94 for information on installing Acrobat Reader.

For more information on using Acrobat Reader, refer to the Acrobat Reader “Help” menu.

● **What is explained in “How to Use FinePixViewer”...**
“How to Use FinePixViewer” covers a range of topics, including batch processing and ordering prints.

■ Example: Looking up slide shows

① Click “How to Use FinePixViewer” in the FinePixViewer Help menu.
② Click “Basic Operation” and then click “Basic Slide Show Operations” in the menu that appears.
③ The “Basic Slide Show Operations” information appears. Press the “<<<” key to view the previous page or the “>>>” key to view the next page.

6.2.2 Uninstalling the software

Only perform this operation when you no longer require the installed software or when the software was not installed correctly.

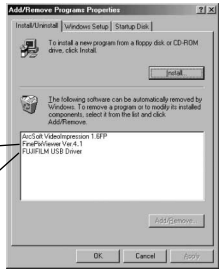
Windows

① Turn on your PC.
② Disconnect the camera (➡P.102).
③ Quit all currently running applications.
④ Close all files.
⑤ Open the “My Computer” window, open the “Control Panel”, and double-click “Add/Remove Programs”.

⑥ The “Add/Remove Programs Properties” window appears. Select the software to be uninstalled (FinePixViewer or the driver) and then click the [Add/Remove] button.

<To remove FinePixViewer>
FinePixViewer Ver.4.1

<To remove the driver software>
FUJIFILM USB Driver



⑦ When the message appears, click the [OK] button. Check your selection carefully since the process cannot be cancelled once you click the [OK] button.

⑧ Automatic uninstallation begins.
When uninstallation ends, click the [OK] button.

Macintosh

Only perform this operation when you no longer require the installed software or when the software was not installed correctly.

Mac OS 9.0 to 9.2

■ Uninstalling Mass Storage Driver and PC Camera Driver

① Check that the camera is not connected to your Macintosh.
② Open the “Extensions” folder in the System folder, and then drag all the files that begin with “USB04CB…” to the Trash.
③ Restart your Macintosh.
④ Select “Empty Trash” in the “Special” menu.

■ Uninstalling Exif Launcher, FinePixViewer and DP Editor

① After you have quit Exif Launcher in “Exif Launcher Settings” in the FinePixViewer “Settings” menu, move the Exif Launcher file from the “Startup Items” folder in the System folder to the Trash. Then select “Empty Trash” in the “Special” menu.
② After you have exited FinePixViewer and DP Editor drag the installed FinePixViewer folder to the Trash. Then click “Empty Trash” in the “Special” menu.

Mac OS X

■ Uninstalling FinePixViewer

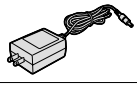
Quit FinePixViewer and DP Editor. Then drag the installed FinePixViewer folder to the Trash and select “Empty Trash” in the “Special” menu.

Accessories Guide

▶Accessories (sold separately) can make taking pictures with the FinePix S20 Pro even easier. For information on how to attach and use accessories, refer to the instructions provided with the accessory used.
Visit the FUJIFILM web site for the latest information on camera accessories.
http://home.fujifilm.com/products/digital/index.html

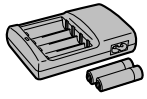
- **xD-Picture Card**
  These are separately available **xD-Picture Card**s.
  Use the following **xD-Picture Card**:
  DPC-16 (16 MB)/DPC-32 (32 MB)/DPC-64 (64 MB)/DPC-128 (128 MB)/
  DPC-256 (256 MB)/DPC-512 (512 MB)

- **AC Power Adapter AC-5VH/AC-5VHS**
  Use the AC-5VH/AC-5VHS when you want to take pictures or play back images for long periods or when the FinePix S20 Pro is connected to a personal computer.
  ✻ The shape of the AC power adapter, the plug and socket outlet depend on the country.



- **Fujifilm Rechargeable Battery 2HR-3UF**
  The 2HR-3UF includes 2 pieces of high-capacity AA-size Nickel-Metal Hydride (Ni-MH) batteries.

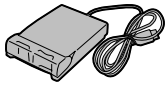
- **Fujifilm Battery Charger with Battery BK-NH/BK-NH2 (With Euro type or UK type plug)**
  The BK-NH/BK-NH2 includes the quick battery charger BCH-NH/BCH-NH2 and 2 Ni-MH batteries.
  The BCH-NH/BCH-NH2 can charge 2 Ni-MH batteries in approximately 120 minutes.
  Up to 4 Ni-MH batteries can be charged simultaneously.



- **Soft Case SC-FX602**
  This is a special case made of polyester that protects the camera against soil, dust and minor impacts when it is being carried.

- **Wide Conversion Lens WL-FX9/WL-FX9B**
- **Teleconversion lens TL-FX9/TL-FX9B**
  See P.87 for details.

- **Image Memory Card Reader DPC-R1**
  The DPC-R1 provides a quick and easy way to transfer images back and forth between your PC and an image memory card (**xD-Picture Card** and SmartMedia). The DPC-R1 uses the USB interface for high-speed file transfer.
  - Compatible with Windows 98/98 SE, Windows Me, Windows 2000 Professional, Windows XP or iMac, Mac OS 8.6 to 9.2.2, Mac OS X (10.1.2 to 10.2.2) and models that support USB as standard.
  - Compatible with **xD-Picture Card** of 16 MB to 512 MB, and SmartMedia of 3.3 V, 4 MB to 128 MB.



- **PC Card Adapter DPC-AD**
  The PC Card Adapter allows the **xD-Picture Card** and SmartMedia to be used as a PC Card Standard ATA-compliant (PCMCIA 2.1) PC card (Type Ⅱ).
  - Compatible with **xD-Picture Card** of 16 MB to 512 MB, and SmartMedia of 3.3 V, 2 MB to 128 MB.

- **CompactFlash™ Card Adapter DPC-CF**
  Loading an **xD-Picture Card** into this adapter allows you to use the card as a CompactFlash card (Type Ⅰ).
  - Windows 95/98/98 SE/Me/2000 Professional/XP
  - Mac OS 8.6 to 9.2/X (10.1.2 to 10.1.5)

- **xD-Picture Card™ USB Drive DPC-UD1**
  This is a compact card reader for **xD-Picture Card**s. Simply plug the drive into the USB port to read and write data to an **xD-Picture Card**. (No driver installation is required except on Windows 98/98 SE.)
  - Windows 98/98 SE/Me/2000 Professional/XP
  - Mac OS 9.0 to 9.2/X (10.0.4 to 10.2.6)

- **Hyper-Utility Software HS-V2 Ver.2.0 (IEEE 1394 Interface)**
  - This software allows you to convert CCD-RAW files shot on the FinePix S20 Pro to 16-bit TIFF files by specifying the conversion settings (tone curve, white balance, sharpness and color) and the output image size.
  - This software also makes it possible for you to connect the camera to a computer via an IEEE 1394 interface and download the images shot on the camera directly to the computer without first storing them on a media. You can also use this software to control the camera and take pictures from your computer.
  - This software allows images shot on the Digital Camera FinePix S20 Pro to be used on a computer.

Using Your Camera Correctly

▶ Read this information and the "Safety Notes" (➡P.118), to make sure you use your camera correctly.

■ Places to Avoid

Do not store or use the camera in the following types of locations:

- In the rain or in very humid, dirty or dusty places
- In direct sunlight or in places subject to extreme temperature rises, such as in a closed car in summer
- Extremely cold places
- Places with strong vibration
- Places with smoke or steam
- Places subject to strong magnetic fields (such as near motors, transformers or magnets)
- In contact with chemicals such as next to rubber or vinyl products

■ Damage by Water or Sand

The FinePix S20 Pro can be damaged on the inside and outside by water and sand. When you are at the beach or close to water, make sure that the camera is not damaged by water or sand. Take care not to place the camera on a wet surface.

■ Damage by Condensation

If the camera is carried from a cold location into a warm place, water droplets (condensation) may form on the inside of the camera or on the lens. When this occurs, turn the camera off and wait an hour before using the camera. Condensation may also form on the media. In this event, remove the media and wait a short time.

■ When the Camera is Not Used or is stored Periods of Time

If you do not intend to use the camera for a long period of time, remove the batteries and the media.

■ Cleaning Your Camera

- Use a blower brush to brush away any dust on the lens, LCD monitor, viewfinder or external AF sensor and then gently wipe the camera with a soft, dry cloth. If any soiling remains, apply a small amount of lens cleaning liquid to a piece of FUJIFILM lens cleaning paper and wipe gently.
- Do not scratch hard objects against the lens, LCD monitor screen or viewfinder.
- Clean the body of the camera with a soft, dry cloth. Do not use volatile substances or cleaning products these items can cause damage.

■ Using the Camera When Traveling

When traveling overseas, do not place your camera in the check-in baggage. Baggage can be subjected violent shocks, and the camera may be damaged inside or outside.

Power Supply and Batteries

Applicable Batteries

- In the camera, use AA-size alkaline or nickel-metal hydride batteries.
  Do not use AA-size manganese or nickel-cadmium (Ni-Cd) batteries in your FinePix S20 Pro because the heat created by the batteries could damage the camera or cause is not to work.
- The life of alkaline batteries varies between brands. The life of batteries you purchase may be shorter than those provided with the camera.

Notes on the Batteries

Incorrect use of the batteries could cause them to leak, become hot, ignite or burst. Always observe the precautions given below.

- Do not heat the batteries or throw them into a fire.
- Do not carry or store batteries with metal objects such as necklaces or hairpins.
- Do not expose the batteries to water, and keep batteries from getting wet or stored in moist locations.
- Do not attempt to take apart or change the batteries, including battery casings.
- Do not subject the batteries to strong impacts.
- Do not use batteries that are leaking, deformed, discolored.
- Do not store batteries in warm or humid places.
- Keep the batteries out of reach of babies and small children.
- Make sure that the battery polarity (⊕ and ⊖) is correct.
- Do not use new with used batteries. Do not use charged and discharged batteries together.
- Do not use different types or brands of batteries at the same time.
- If you do not intend to use the camera for a long period of time, remove the batteries from the camera. (Note if the camera is left with the batteries removed, the time and date settings are cleared.)
- The batteries feel warm right after being used. Before removing the batteries, turn the camera off and wait for the batteries cool down.
- Since batteries do not work well in cold weather or locations, warm the batteries by placing it inside your garments before use. A battery that is not working well due to cold will work again when the temperature is return to normal.
- Soil (such as fingerprints) on the battery terminals makes the batteries charge less reducing the number of images they will allow you to take. Carefully wipe the battery terminals with a soft dry cloth before loading.

⚠ If any liquid at all leaks from the batteries, wipe the battery compartment thoroughly and then load new batteries.

⚠ If any battery fluid comes into contact with your hands or clothing, flush the area thoroughly with water. Note that battery fluid can cause loss of eyesight if it gets into your eyes. If this occurs, do not rub your eyes. Flush the fluid out with clean water and contact your physician for treatment.

Using the AA-size Ni-MH batteries correctly

- As a power source in digital cameras, AA-size Ni-MH batteries are superior to alkaline batteries in several ways, such as allowing more shots to be taken with the camera. However, care must be taken with the way Ni-MH batteries are used if their original performance is to be maintained.
- Ni-MH batteries left unused in storage for long periods can become “deactivated”. Also, repeatedly charging Ni-MH batteries that are only partially discharged can cause them to suffer from the “memory effect”.
  Ni-MH batteries that are “deactivated” or affected by “memory” suffer from the problem of only providing power for a short time after being charged. To prevent this problem, discharge and recharge them several times using the camera’s “Discharging rechargeable batteries” function. By repeating this cycle several times, the temporary reduction in performance caused by “memory” or “deactivation” can be remedied and the batteries can be restored to their original performance levels.
  Deactivation and memory are specific to Ni-MH batteries and are not in fact battery faults. See P.109 for the procedure for “Discharging rechargeable batteries”.

Do not use the “Discharging rechargeable batteries” function when alkaline batteries are being used.

- To charge Ni-MH batteries, use the quick battery charger (sold separately). Refer to the instructions supplied with the charger to ensure that the charger is used correctly.
- Do not use the battery charger to charge other batteries.
- Note that the batteries feel warm after being charged.
- Due to the way the camera is constructed, a small amount of current is used even when the camera is turned off. Note in particular that leaving Ni-MH batteries in the camera for a long period will overdischarge the batteries and may render them unusable even after recharging.
- Ni-MH batteries will self-discharge even when not used, and the time for which they can be used may be shortened as a result.
- Ni-MH batteries will deteriorate rapidly if overdischarged (eg. by discharging the batteries in a flashlight). Use the "Discharging rechargeable batteries" function provided in the camera to discharge the batteries.
- Ni-MH batteries have a limited service life. If a battery can only be used for a short time even after repeated discharge-charge cycles, it may have reached the end of its service life.

■ Disposing of Batteries

When disposing of batteries, do so in accordance with your local waste disposal regulations.

AC Power Adapter

Always use the AC Power Adapter AC-5VH/AC-5VHS with the camera.
The use of an AC Power adapter other than AC-5VH/AC-5VHS can be damaged to your digital camera.

- Use AC power adapter for indoor use only.
- Plug the connection cord plug securely into the DC input terminal of the FUJIFILM Digital camera.
- Turn off the FUJIFILM Digital camera before disconnecting the cord from the FUJIFILM Digital camera’s DC input terminal. To disconnect, pull out the plug gently. (Do not pull on the cord.)
- Do not use this AC power adapter with any device other than your camera.
- During use, the AC power adapter will become hot to the touch. This is normal.
- Do not take apart the AC power adapter. Doing so could be dangerous.
- Do not use this device in a place with hot humid place.
- Do not subject AC power adapter to strong shocks.
- This device may emit a humming. But this is normal.
- If used near a radio, this device may cause static, if this happens move the camera away from the radio.

Notes on the Media (xD-Picture Card™ and Microdrives)

■ Image Memory Card

- This Image Memory Card is a new image recording media (**xD-Picture Card**) developed for digital cameras. The Image Memory Card consists of a semiconductor memory (NAND-type flash memory) to record digital image data.
  The recording process is electrically performed and enables erasure of existing image data as well as re-recording of new image data.
- When using a new Memory Card, or a Memory Card that has been formatted by a PC, be sure to format the card with your digital camera before using it.

■ Microdrives

Microdrives are compact, lightweight hard disk drives that conform to the CF+ Type II standard. Due to their ample capacity for large image data files and their low per-megabyte recording cost, Microdrives provide a more economical way to save high-resolution image files.

■ Protecting Your Data

- Images and movies may be lost or destroyed in the following situations. Please note that FUJIFILM assumes no responsibility for data that is lost or destroyed.
  1. Removal of the memory card or turning the power off while the memory card is being accessed (i.e., during record, erase, initialization, and playback operations).
  2. Improper handling and use of the memory card by the user or third party.
- Save your important data to another media (i.e., MO disk, CD-R, hard disk, etc.).

■ Handling Media (all types)

- When inserting the media into the camera, hold the media straight as you push it in.
- Never remove the media or turn the camera off during data recording or erasing (media formatting) as this could be damaged to the media.
- Data storage media are precision electronic devices. Do not bend, drop or otherwise subject the media to strong force or shocks.
- Do not use or store these media in places with affected by strong static electricity or electrical noise.
- Do not use or store media in hot humid places or in places where they are exposed to corrosive substances.

■ Handling xD-Picture Card

- When storing **xD-Picture Card**s, make sure that they are kept out of the reach of children. An **xD-Picture Card** could be swallowed cause suffocation. If a child swallows an **xD-Picture Card**, seek medical attention or call emergency number right away.
- Do not expose an **xD-Picture Card** to shock. Do not apply pressure, and avoid bending.
- Do not use the **xD-Picture Card** in a hot or humid place.
- Clean the **xD-Picture Card** with a soft dry piece of cloth when dirty.
- When carrying or storing an **xD-Picture Card**, keep it in the special protective case.
- The **xD-Picture Card** will work well for long time, but will sooner or later lose its ability to store and play back images or movies. If this happens replace it with a new **xD-Picture Card**.
- The use of **xD-Picture Card**s is recommended with the FinePix S20 Pro.
  The recording quality cannot be guaranteed when an **xD-Picture Card** other than those manufactured by FUJIFILM are used.
- The **xD-Picture Card** may feel warm when it is removed from the camera after taking pictures. This is normal.
- Do not put labels on the **xD-Picture Card**. Peeling labels can cause the camera not to work properly.

■ Using Microdrive

- Do not use hard-pointed pens to write on the Microdrive label.
- Do not peel off the Microdrive label.
- Do not stick additional labels onto a Microdrive.
- When carrying or storing a Microdrive, keep it in the protective case provided.
- When a Microdrive is used, vibration or impacts during image data recording may prevent the image data from being recorded correctly. Put the camera down carefully when placing it on a desk or table, etc.
- Do not use Microdrive in CF+ Type II slots that do not have an eject function.
- Take care when handling Microdrive that have been used for long periods as they may become hot.
- Do not place Microdrives close to strong magnetic fields.
- Keep Microdrive dry.
- Do not apply strong pressure to the Microdrive cover.

■ Using media with a PC

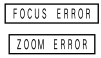
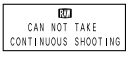
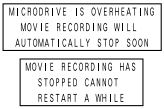
- When you take pictures using a media that has been used on a PC, reformat the media using your camera for best quality.
- When you format a media, a directory (folder) is created. Image data is then recorded in this directory.
- Do not change or delete the directory (folder) or file names on the media because this will make it impossible to use the media in your camera.
- Always use the camera to erase image data on a media.
- To edit image data, copy the image data to the PC and edit the copy.
- Do not copy files other than those that will be used by the camera.

■ Specifications

Type	Image memory card for digital cameras (**xD-Picture Card**)
Memory type	NAND-type flash memory
Conditions for use	Temperature: 0°C to +40°C (+32°F to +104°F) Humidity: 80% max. (no condensation)
Dimensions	25 mm × 20 mm × 2.2 mm (0.98 in. × 0.79 in. × 0.09 in.) (W × H × D)

(Lit red) (Blinking red)	The camera batteries are low or completely out of charge.	Load new or fully charged batteries.
	There is a strong likelihood of camera shake because the shutter speed is slow.	Use flash photography. Use a tripod for some scenes and modes.
	The AF (auto focus) cannot work effectively.	• If the image is too dark, take the picture at a distance of around 2 m (6.6 ft.) from the subject. • Use AF lock to take the picture.
Aperture/Shutter speed display (Lit red)	Outside the AE continuous range.	The shot can be taken, but the exposure will not be correct.
NO CARD	No media is inserted.	Insert a media.
	• The media is not formatted. • The **xD-Picture Card** contact area is soiled.	• Format the media. • Wipe the contact area on the **xD-Picture Card** with a soft dry cloth. It may be necessary to format the **xD-Picture Card**. If the error message is still displayed, replace the **xD-Picture Card**.
	• Camera fault.	• Contact your FUJIFILM dealer.
CARD FULL	The media is fully recorded.	Erase some images or use a media that has ample free space.
READ ERROR	• The file played back was not recorded correctly. • The **xD-Picture Card** contact area is soiled.	• Images cannot be played back. • Wipe the contact area on the **xD-Picture Card** with a soft dry cloth. It may be necessary to format the **xD-Picture Card**. If the error message is still displayed, replace the **xD-Picture Card**.
	• Camera fault. • The camera was bumped during movie playback from a Microdrive. • You attempted to play a movie that was not recorded on this camera.	• Contact your FUJIFILM dealer. • Turn the camera off and then on again, or use skip playback/frame rewind. • Movies cannot be played back.
FILE NO. FULL	The frame number has reached 999–9999.	① Insert a formatted media into the camera. ② Set “RENEW” as the FRAME NO. setting in the SET-UP menu. ③ Start taking pictures. (The frame numbers start from “100-0001”.) ④ Set “CONT.” as the FRAME NO. setting in the SET-UP menu.
W		

Warning Displays

Warning Displayed	Explanation	Remedy
	Camera malfunction or fault.	• Turn the camera on again, taking care not to touch the lens. • Turn the camera off and on again. If the message is still displayed, contact your FUJIFILM dealer.
	• The voice memo file is faulty. • Camera fault.	• The voice memo cannot be played back. • Contact your FUJIFILM dealer.
	CCD-RAW is set to ON in SET-UP.	Set CCD-RAW to OFF in SET-UP (➡P.83).
	An attempt was made to specify DPOF settings for an image that is not supported by DPOF.	DPOF printing cannot be used with this image format.
	The timing for recording was incorrect because the media was formatted on a computer.	Use media that was formatted on the camera.
	You tried to shoot a movie when the Microdrive was too hot.	Turn the camera off and stop using it for about 30 minutes until it has cooled down. Note that you can still shoot still images during this time.
	When "📷 1394 ⇋" is selected in "1394 MODE" in the SET-UP menu, the Mode dial is set to another mode excluding the Still photography mode.	• When taking pictures using PC, set the Mode dial to the Still photography mode. • Select "🎥📷⇋" in "1394 MODE" in the SET-UP menu.

Troubleshooting

▶If you think the camera is faulty, check the following once more.

Troubleshooting	Possible causes	Solutions
No power.	• The batteries have run out. • The batteries are loaded backwards. • The battery cover is not closed properly. • The AC power adapter plug has come out of the power outlet.	• Load new or fully charged batteries. • Load the batteries in the correct direction. • Close the battery cover correctly. • Plug the adapter back in.
Power cuts out during operation.	The batteries run out.	Load new or fully charged batteries.
Batteries run out quickly.	• You are using the camera in extremely cold conditions. • The terminals are soiled. • The batteries get un-rechargeable.	• Put the batteries in your pocket or another warm place to heat them and then load them into the camera just before you take a picture. • Wipe the battery terminals with a clean, dry cloth. • Load new or fully charged batteries.
No photograph is taken when the shutter button is pressed.	• No media is inserted. • The media is fully recorded. • The media is not formatted. • The **xD-Picture Card** contact area is soiled. • The media is damaged. • The Auto Power Off function has switched the camera off. • The batteries run out.	• Insert a media. • Insert a new media or erase some unwanted frames. • Format the media. • Wipe the **xD-Picture Card** contact area with a clean dry cloth. • Insert a new media. • Turn the camera on. • Load new or fully charged batteries.
Focusing is slow.	• The ADAPTER menu in the “SET-UP” menu is “YES”. • The external AF sensor is dirty.	• If you are not using an adapter, select the “NO” setting. • Use a blower brush to brush away any dust and then gently wipe the sensor with a soft, dry cloth.
Can’t set the camera to Macro (close-up) mode.	The camera is set to Scene position mode or to Movie mode.	Photography mode is changed to “AUTO”, “P”, “S”, “A” or “M”.
Can’t select continuous shooting.	Multiple exposure mode is selected.	Set Multiple exposure mode to “OFF”.
Can’t set exposure compensation.	The Photography mode is set to Auto, Scene position or Manual.	Change the photography mode.
Can’t use the flash.	• The flash is not popped up. • You pressed the Shutter button while the flash was charging. • The batteries run out. • The camera is set to Scenery in Scene position mode. • Continuous shooting is selected. • Super Macro mode is selected.	• Pop up the flash. • Wait until the flash has finished charging before pressing the Shutter button. • Load new or fully charged batteries. • Select another Scene position or change the Photography mode. • Set Continuous shooting to “OFF”. • Cancel Super Macro mode.
The flash settings are restricted and cannot be selected.	Scene position mode is selected.	The flash settings are restricted because the camera settings are tailored to the scene being shot. Change the Photography mode for a wider range of flash settings.
Can only select Suppressed flash mode.	Continuous shooting is selected.	Set Continuous shooting to “OFF”.
Can only select the “1M” quality setting.	• The sensitivity is set to 1600 (high-sensitivity photography). • The Continuous shooting option in the photography menu is set to “Long-period continuous shooting”.	• Set the sensitivity to 800 or less. • Set the Continuous shooting option to something other than “Long-period continuous shooting”.
The playback image is too dark even though the flash was used.	• The subject is too far away. • Your finger was covering the flash/flash control sensor.	• Move to within the effective flash range before taking the picture. • Hold the camera correctly.

Troubleshooting	Possible causes	Solutions
The image is blurred.	• The lens is dirty. • The photographed subject was too dark. • You photographed scenery with Macro mode selected. • You took a close-up shot without selecting Macro mode. • You are shooting a subject that is not suited to autofocusing.	• Clean the lens. • Try standing approx. 2 m (6.6 ft.) from your subject to take the picture. • Cancel Macro mode. • Select Macro mode. • Use AF/AE lock to take the picture.
There is speckling on the image.	The shot was taken with a slow shutter speed (long exposure) in a high-temperature environment.	This is a characteristic of CCDs and does not indicate a camera fault.
Can't format the **xD-Picture Card**.	The **xD-Picture Card** contact area is soiled.	Wipe the **xD-Picture Card** contact area with a clean dry cloth.
Frame erase does not erase the frame.	Some frames may be protected.	Unprotect frames using the camera on which the protection was first applied.
The ERASE ALL function does not erase all the frames.		
Nothing happens when I use the Mode dial.	• Camera malfunction. • The batteries run out.	• Briefly remove the batteries or disconnect the AC power adapter. Then reload the batteries or reconnect the AC power adapter and try again. • Load new or fully charged batteries.
Screens are not displayed in English.	A language other than English is selected in the "言語/LANG." setting in SET-UP.	① Set the Power switch to "📷". ② Set the Mode dial to "SET". (SET-UP screen appears.) ③ Press "▲" or "▼" several times until a screen with "2/3" in the top-right corner appears and then select "言語/LANG.". ④ Press "◀" or "▶" several times to change the setting to "English". ⑤ Set the Mode dial to another mode setting and take the shot, or set the Power switch to "▶" or "OFF".
There is no image or sound on the TV.	• The included A/V cable was connected during movie playback. • The camera is not connected to the TV correctly. • "TV" is selected as the TV input. • The TV volume is turned down.	• Connect the camera and TV correctly. • Connect the camera and TV correctly. • Set the TV input to "VIDEO". • Adjust the volume.
The camera does not emit any sound.	• The camera volume is set too low. • The microphone was blocked during shooting/recording. • There is something covering the speaker during playback.	• Adjust the volume. • Take care not to block the microphone during shooting/recording. • Ensure that the speaker is uncovered.
When the camera is connected to a personal computer (PC), the photographed image or playback image appears on the camera's LCD monitor.	• The USB cable (mini-B) or IEEE 1394 cable is not correctly connected to the PC or camera. • The PC is not turned on.	• Set up the camera and the USB cable (mini-B) correctly. • Turn the PC on.
The camera no longer works correctly.	The camera has suffered an unforeseen problem.	Briefly remove the batteries or disconnect the AC power adapter. Then reload the batteries or reconnect the AC power adapter and try again. If the message is still displayed, contact your FUJIFILM dealer.

Specifications

System

Model	Digital camera FinePix S20 Pro
Effective pixels	6.2 million (S-pixel: 3.1million, R-pixel: 3.1million) pixels
CCD	1/1.7-inch Super CCD SR Total 6.7 million (S-pixel: 3.35 million, R-pixel: 3.35 million) pixels
Storage media	**xD-Picture Card** (16/32/64/128/256/512 MB) Microdrive (340 MB/1 GB)
File format	Still image: DCF-compliant Compressed: Exif Ver.2.2 JPEG, DPOF-compatible ✻ Design rule for Camera File System compliant DPOF compatible Uncompressed: CCD-RAW (RAF) Movie: AVI format, Motion JPEG Audio: WAVE format, Monaural sound
Number of recorded pixels	Still image: 2832 × 2128 pixels/2048 × 1536 pixels/ 1600 × 1200 pixels/1280 × 960 pixels (6M/3M/2M/1M) Movie: 640 × 480 pixels (30 frames per second with monaural sound) 320 × 240 pixels (30 frames per second with monaural sound)
Lens	Super EBC Fujinon 6× zoom lens, F2.8-F3.1
Focal length	7.8 mm-46.8 mm (Equivalent to 35 mm-210 mm on a 35 mm camera)
Focus	TTL contrast-type, Auto focus, Manual focus
Focal range	Normal: Wide-angle: Approx. 50 cm (1.6 ft.) to infinity Telephoto: Approx. 90 cm (3.0 ft.) to infinity Macro: Approx. 10 cm (3.9 in.) to 80 cm (2.6 ft.) Super Macro: Approx. 1 cm (0.4 in.) to 20 cm (7.9 in.)
Shutter speed	AUTO/SP: 1/4 sec. to 1/1000 sec. SP (Night scene mode only): 3 sec. to 1/250 sec. P/S/A: 3 sec. to 1/1000 sec. M: 30 sec. to 1/10000 sec. Bulb(Up to 30 sec.)
Aperture	F2.8 to F11 13 steps in 1/3 EV increments Manual/Auto selectable
Sensitivity	AUTO: Equivalent to ISO160-800 Manual: Equivalent to ISO200/400/800/1600 (resolution is set at 1M for shots taken at ISO 1600.) During setting CCD-RAW 200/400
Photometry	TTL 64-zones metering Multi, Spot, Average
Exposure control	Program AE (AUTO, P, SP), Shutter-priority AE, Aperture-priority AE, Manual exposure
Exposure compensation	–2 EV to +2 EV (13 steps in 1/3 EV increments)
White balance	Auto (AUTO, SP) Manual modes, 9 positions can be selected (P, S, A, M)
Viewfinder	0.44-inch 235,000 pixels electronic viewfinder Approx. 100% coverage
LCD monitor	1.8-inches, 118,000-pixel low temperature polysilicon TFT, Approx. 100% coverage
Flash Type	Auto flash using flash control sensor Effective range: Wide-angle: Approx. 0.3 m-8.5 m (1.0 ft.-27.9 ft.) (Approx. 0.3 m-0.8 m (1.0 ft.-2.6 ft.): Macro) Telephoto: Approx. 0.9 m-7.9 m (3.0 ft.-25.9 ft.) Flash modes: Auto, Red-Eye Reduction, Forced Flash, Suppressed Flash, Slow Synchro, Red-Eye Reduction + Slow Synchro
Self-Timer	2 sec. /10 sec.
Video output	NTSC/PAL selectable

Input/Output Terminals

A/V output socket	2.5 mm dia. jack
USB (mini-B) socket	For data transfer to a computer
IEEE 1394 socket	For connecting a 4-pin IEEE 1394 cable for data exchange with a computer and picture taking from computer
DC Input	Socket for specified AC Power adapter AC-5VH/AC-5VHS (sold separately)
Accessory shoe	Hot shoe, Sync terminal

Specifications

Power Supply and Others

Power supply

Use one of the following
- 4× AA-size alkaline batteries
- 4× AA-size Ni-MH (Nickel-Metal Hydride) batteries (sold separately)
- AC Power Adapter AC-5VH/AC-5VHS (sold separately)

Conditions for use

Temperature: 0°C to +40°C (+32°F to +104°F)
80% humidity or less (no condensation)

Guide to the number of available frames for battery operation

Media type \ Battery Type		Alkaline batteries	Ni-MH batteries HR-3UF (2100)
xD-Picture Card	Using LCD monitor	Approx. 220 frames	Approx. 350 frames
	Using EVF	Approx. 230 frames	Approx. 360 frames
Microdrive	Using LCD monitor	Approx. 210 frames	Approx. 320 frames
	Using EVF	Approx. 220 frames	Approx. 330 frames

The number of available frames for battery operation given here is a guide to the number of consecutive shots that can be taken under FUJIFILM test conditions.
- Batteries used: alkaline batteries bundled with the camera
  fully charged Ni-MH batteries
- Shooting conditions: Measured at normal temperature with 50% flash use
- Note: Because the number of available frames that can be taken varies depending on the capacities of alkaline batteries and the amount of charge in Ni-MH batteries, the figures given here for the number of frames that can be taken using batteries are not guaranteed. At low temperatures, fewer pictures can be taken when the camera is running on batteries.

Camera dimensions (W × H × D)

121.0 mm × 81.5 mm × 97.0 mm/4.8 in. × 3.2 in. × 3.8 in.
(not including accessories and attachments)

Camera mass (weight)

Approx. 500 g/17.6 oz.
(not including accessories, batteries, **xD-Picture Card** and Microdrive)

Weight for photography

Approx. 600 g/21.2 oz. (including batteries and **xD-Picture Card**)

Accessories

See P.7

Optional Accessories

See P.106

■ Standard number of frames per Media*

Quality	6M F	6M N	3M	2M	1M	RAW
Number of recorded pixels	2832 × 2128		2048 × 1536	1600 × 1200	1280 × 960	2832 × 2128
Image Data Size	3.0 MB	1.5 MB	780 KB	630 KB	470 KB	13 MB
DPC-16 (16 MB)	5	10	19	25	33	1
DPC-32 (32 MB)	10	21	40	50	68	2
DPC-64 (64 MB)	21	42	81	101	137	4
DPC-128 (128 MB)	42	85	162	204	275	9
DPC-256 (256 MB)	86	171	325	409	550	19
DPC-512 (512 MB)	172	343	651	818	1101	39
Microdrive 340 MB	117	234	445	559	752	26
Microdrive 1 GB	353	698	1313	1642	2190	80

■ Standard recording Times for Media*

Quality	640 (30 fps)	320 (30 fps)
Number of recorded pixels	640 × 480	320 × 240
DPC-16 (16 MB)	13 sec.	26 sec.
DPC-32 (32 MB)	27 sec.	54 sec.
DPC-64 (64 MB)	55 sec.	109 sec.
DPC-128 (128 MB)	111 sec.	219 sec.
DPC-256 (256 MB)	223 sec.	7.3 min.
DPC-512 (512 MB)	7.4 min.	14.6 min.
Microdrive 340 MB	5.0 min.	10.0 min.
Microdrive 1 GB	15.3 min.	30.1 min.

- These specifications are subject to change without notice. FUJIFILM shall not be held liable for damages resulting from errors in this Owner's Manual.
- The LCD monitor on your digital camera is manufactured using advanced high-precision technology. Even so, small bright points and anomalous colors (particularly around text) may appear on the monitor. These are normal display characteristics and do not indicate a fault with the monitor. This phenomenon will not appear on the recorded image.
- The operation error may be caused in a digital camera by the strong radio interference (i. e. electric fields, static electricity, line noise, etc.).
- Due to the nature of the lens, the edges of images may appear distorted. This is normal.

* The number of available frames, recording time or file size varies slightly depending on the subjects photographed. Note also that the divergence between standard number of available frames and the actual number of available frames is greater for media with higher capacities.

Explanation of Terms

AF/AE Lock:
On the FinePix S20 Pro, pressing the Shutter button down half way locks the focus and exposure settings (AF and AE lock). If you want to focus on a subject that is not centered in the frame or change the picture composition after the exposure is set, you can obtain good results by changing the composition after the AF and AE settings are locked.

Auto power save function:
If the camera is not used in any way for 30 seconds, this function turns features such as the LCD monitor off (Sleep mode) to prevent battery depletion and the waste of power when the AC power adapter is connected. If the camera is then left unused for a further period, the Auto power save function turns the camera off. This period can be set to 2 minutes or 5 minutes on this camera.
● The Auto power off function does not operate in PC mode, during automatic playback, or if it is disabled during setup.

Deactivated batteries:
Leaving an Ni-MH battery unused in storage for a long period may cause a rise in the level of substances that inhibit current flow inside the battery and result in a dormant battery. A battery in this state is referred to as deactivated.
Because current flow is inhibited in a deactivated Ni-MH battery, the battery's original level of performance cannot be achieved.

DPOF:
Digital Print Order Format
DPOF is a format used for recording information on a storage media (image memory card, etc.) that allows you to specify which of the frames shot using a digital camera are to be printed and how many prints are made of each image.

EV:
A number that denotes Exposure Value. The EV is determined by the brightness of the subject and sensitivity (speed) of the film or CCD. The number is larger for bright subjects and smaller for dark subjects. As the brightness of the subject changes, a digital camera maintains the amount of light hitting the CCD at a constant level by adjusting the aperture and shutter speed.
When the amount of light striking the CCD doubles, the EV increases by 1. Likewise, when the light is halved, the EV decreases by 1.

Frame rate (fps):
The frame rate refers to the number of images (frames) that are photographed or played back per second. For example, when 10 frames are continuously photographed in a 1-second interval, the frame rate is expressed as 10 fps.
For reference, TV images are displayed at 30 fps.

JPEG:
Joint Photographics Experts Group
A file format used for compressing and saving color images. The higher the compression rate, the greater the loss of quality in the decompressed (restored) image.

Memory effect:
If an Ni-MH battery is repeatedly charged without first being fully discharged, its performance may drop below its original level. This is referred to as the “memory effect”.

Motion JPEG:
A type of AVI (Audio Video Interleave) file format that handles images and sound as a single file. Images in the file are recorded in JPEG format. Motion JPEG can be played back by QuickTime 3.0 or later.

PC Card:
A generic term for cards that meet the PC Card Standard.

PC Card Standard:
A standard for PC cards determined by the PCMCIA.

PCMCIA:
Personal Computer Memory Card International Association (US).

Smear:
A phenomenon specific to CCDs whereby white streaks appear on the image when there is a very strong light source, such as the sun or reflected sunlight, in the photography screen.

WAVE:
A standard format used on Windows systems for saving audio data. WAVE files have the “.WAV” file extension and the data can be saved in either compressed or uncompressed format. Uncompressed recording is used on this camera.
WAVE files can be played back on a personal computer using the following software:
Windows : MediaPlayer
Macintosh: QuickTime Player
✻ QuickTime 3.0 or later

White Balance:
Whatever the kind of the light, the human eye adapts to it so that a white object still looks white. On the other hand, devices such as digital cameras see a white subject as white by first adjusting the color balance to suit the color of the ambient light around the subject. This adjustment is called matching the white balance.

Exif Print
Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.

Safety Notes

- Make sure that you use your FinePix S20 Pro camera correctly, read these Safety Notes and your Owner's Manual carefully beforehand.
- After reading these Safety Notes, store them in a safe place.

About the Icons

The icons shown below are used in this document to indicate the severity of the injury or damage that can result if the information indicated by the icon is ignored and the product is used incorrectly as a result.

⚠ **WARNING**	**This icon indicates that death or serious injury can result if the information is ignored.**
⚠ **CAUTION**	**This icon indicates that personal injury or material damage can result if the information is ignored.**

The icons shown below are used to indicate the nature of the information which is to be observed.

Triangular icons tell you that this information requires attention ("important").

Circular icons with a diagonal bar tell you that the action indicated is prohibited ("Prohibited").

Filled circles with an exclamation mark tell you an action that must be performed ("Required").

⚠ WARNING

If a problem arises, turn the camera off, remove the batteries, disconnect and unplug the AC power adapter.

Continued use of the camera when it is emitting smoke, is emitting any unusual odor, or is in any other abnormal state can cause a fire or electric shock.

- Contact your FUJIFILM dealer.

Unplug from power socket.

Do not allow water or foreign objects to enter the camera.

If water or foreign objects get inside the camera, turn the camera off, remove the batteries and disconnect and unplug the AC power adapter. Continued use of the camera can cause a fire or electric shock.

- Contact your FUJIFILM dealer.

Do not use the camera in the bathroom or shower.

This can cause a fire or electric shock.

Do not use in the bathroom or shower.

Never attempt to change or take apart the camera. (Never open the casing.)
Do not use the camera when it has been dropped or the casing is damaged.

This can cause a fire or electric shock.

- Contact your FUJIFILM dealer.

Do not disassemble.

Do not change, heat or unduly twist or pull the connection cord and do not place heavy objects on the connection cord.

These actions could damage the cord and cause a fire or electric shock.

- If the cord is damaged, contact your FUJIFILM dealer.

Do not place the camera on an unstable surface.

This can cause the camera to fall or tip over and cause injury.

Never attempt to take pictures while in motion.

Do not use the camera while you are walking or driving a vehicle.

This can result in you falling down or being involved in a traffic accident.

Do not touch any metal parts of the camera during a thunderstorm.

This can cause an electric shock due to induced current from the lightning discharge.

Do not use the batteries except as specified.

Load the batteries with the ⊕ and ⊖ marks.

CAUTION

FUJIFILM

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